

## **Historic, Archive Document**

Do not assume content reflects current scientific knowledge, policies, or practices.





Our cold house of July 30 shading; photoed Oct. 10th. Details, page 3.

There are a number of important factors involved in growing a uniformly good crop of mums at a profit. With exactly 50 years experience growing mums we have attempted to discuss this subject on forward pages. Our suggestions might or might not fit your conditions, but you will be interested in looking them over. To continue supplying you with rooted cuttings, we realize that the business must be profitable to you. We'll do all we can to make it so. Let us hear from you.

Better Mums for 1941

*Geo. J. Ball*  
INC.  
WEST CHICAGO  
ILLINOIS

## NOTE—PLEASE

While our equipment and stock for supplying mum cuttings is improved annually as it should be, we strongly urge the importance of PLACING ORDERS EARLY. While we watch the behavior of varieties, especially the newer ones, and the market demands in all parts of the country, it is impossible to accurately anticipate varieties that will be most wanted.

This results in unexpected demands and shortages of some varieties. For this reason, get your mum list in early as you can, bearing in mind that all orders are filled in the rotation received. We will not make exceptions to this rule.

We insist on thor State inspection of all our propagating stock, especially for midge. This enables us to guarantee all stock furnished by us to be clean, free of disease or insects, well rooted, and carefully packed.

GEO. J. BALL, Inc.

## INSTRUCTIONS FOR ORDERING

**NOTE:** When arrangements are made to ship cuttings on open account, it is understood they are sold on strictly 60 days net basis. The close margin under which these cuttings are sold, makes these terms necessary.

**SPECIAL EARLY ORDER DISCOUNT.** When an order is placed two months, or more, in advance of delivery date, a discount of 5% is allowed, **provided delivery date is April 1st, or later.** Be sure to show on your order, date cuttings are to be shipped.

**Special Discounts for Large Orders:** The following discounts, for quantities given, will apply on orders placed **at one time** for the quantity on which discount is taken.

	Rate per 100	Rate per 10	Rate per 100	Rate per 10
Please note schedule at right showing rates per 100 and corresponding rates per 10. <b>We do not supply less than 10 of any variety, except first year Novelties.</b>	\$ 3.00	\$ .50	\$ 7.00	\$1.25
	4.00	.50	8.00	1.50
	5.00	1.00	10.00	1.50
	6.00	1.00	12.00	2.00
			15.00	2.50

**VERY IMPORTANT** In order to produce cuttings at present prices, the business is run on a very close margin. For this reason we cannot break bundles of 25 cuttings as it adds considerable to the cost.

Please note, therefore, following rule will apply on all orders:

When less than 25 of a variety is ordered they will be billed at the ten rate, as per table shown above.

If order totals less than 1000, 25 of a variety will be billed at the 100 rate.

When more than 25 of a variety is ordered quantity **MUST BE IN MULTIPLES OF 25,** (meaning 50, 75, or 100).

250 of one variety will be billed at the 1000 rate.

**PLEASE NOTE** If your order should total 900 cuttings (for example: 100 each of 9 varieties at \$3.00, total is \$27.00) while if 1000 are ordered, the thousand rate would apply. This point should be watched in figuring your order so that you may have advantage of the thousand rate on the entire order. **WATCH THIS.**

If order is wanted C.O.D. be sure to enclose check for at least 50% of the amount.

**SHIPPING INFORMATION** All our stock is propagated at Barberton, Ohio, from where it is shipped by Express **COLLECT.**

If cuttings are wanted by Parcel Post, add sufficient postage as all prices are figured F.O.B. Barberton, Ohio. Approximate weights of cuttings are as follows: 50 cuttings, 2 lbs.; 100, 4 lbs.; 500, 15 lbs.; 1000, 24 lbs. You can secure the amount of postage necessary from your local Post Office.

**TO OUR CANADIAN CUSTOMERS** Be sure to get a permit from your Department of Agriculture at Ottawa. As all shipments go by Express, you are to forward us the **PERMIT NUMBER ONLY**, holding the permit itself which is necessary to clear the shipment from customs on arrival. In case of Parcel Post shipments, apply for a Parcel Post Permit, and send the label to us with your order.

# MONEY IN MUMS

THAT FRONT COVER is of a Flexo-glass covered house we started shading July 30, photoed October 7. Apricot Queen (light bronze) two to a plant in the foreground, Albatross on right. Also don't overlook our secretary "Helen" and the widely known "Charley" Newbold, our plant sales manager.

When properly managed there is a margin of profit in this crop. Our cost accounting clearly shows this. But if such details as timely planting, spacing, soil, midge, and varieties are not properly attended to, the profit margin can quickly disappear—might even turn into a substantial loss. To make a profit they must not be treated as a catch crop. When a lot turns out to be a loss, as does happen with us at times, the reason can usually be traced back to a preventable cause, —late planting, weak or diseased spots in the

bed, or midge. When we have to fight this pest all summer we don't sometimes realize the cost in time and material that it is piling up against the crop. The use of improved varieties does frequently make the difference between profit and loss. If you are skeptical on this, just remember that real improvements are coming out annually and that live growers are watching for them: and that on an open market the variety that is just a little better sells first: any experienced shipper knows what that can mean to returns. True, a new variety might occasionally be gotten that doesn't click as well with us as with the originator; but it is our experience that many failures with new ones is due to inferior culture.

Another cost item that might easily be overlooked, without a cost finding system, is that of young stock. It is a fact that many large growers who figure costs and the advantages of having their cuttings delivered the day planned for them are ordering their mum cuttings thru this catalog. When mums are propagated early, planted out or potted, and topped and again planted in May or June, they have run up a substantial cost, but the heaviest is the fact that such stock will not usually start off and continue growing as free as cuttings right out of the sand—delivered the day you want 'em: besides planting cuttings directly reduces labor costs to a minimum, and to make a profit on mums or any crop, every cost must be studied. Uniformly good quality is of first importance but it means nothing if it doesn't leave you a margin. Whether your requirements are 10 or 100,000, we want to hear from you.

## The Novelty Section

has been omitted from this catalogue. A circular, listing this year's introductions with full descriptions will be issued after the current blooming season.

NOTE: These 3 index pages showing names of all varieties of mum with page numbers are for use in locating any certain variety as it is arranged alphabetically, while in the regular listing of varieties they are all arranged in order of blooming dates.

<b>A</b>	Bronze Supreme ..... 16 Bronze Turner ..... 10 Bronze Tuxedo ..... 16 Brown Button ..... 19 Brutus ..... 21 Burgundy ..... 19 Butler's Caprice ..... 21 Buttercup ..... 12 Butterfly ..... 11	<b>C</b>	December Beauty ..... 8 December Glory (Large) ..... 8 December Glory (Pomp.) ..... 12 December Gold ..... 12 Derigold ..... 11 Detroit News ..... 9 Diana ..... 19 Distinction ..... 9 Dorothy Nehrling ..... 14 Dorothy Turner ..... 13 Dr. Enguehard ..... 9 Dr. J. M. Inglis ..... 10 Dusky Maid ..... 13
A. Barham ..... 18 Absolute ..... 15 Acacia ..... 17 Adelaide ..... 13 Agappina ..... 19 Agnes S. Clark ..... 18 Albatross ..... 8 Albert Muller ..... 18 Algonquin ..... 17 Alice ..... 14 Alice Benson ..... 10 Aladdin ..... 18 Aloma ..... 15 Amaranthea ..... 14-21 Ambassador ..... 8 Amelia (See Pinkcushion) ..... 18 Amoskeag ..... 18 Angello ..... 14 Anna ..... 19 Anna Kaskas ..... 9 Ann Miller ..... 18 Antarctic ..... 8 Aphrodite ..... 19 Apollo ..... 18 Apricot Queen ..... 9 Arcadia ..... 12 Autumn Glow ..... 21 Autumn Lights ..... 18 Avalon ..... 13	Caliph ..... 19 Camilla ..... 8 Campfire ..... 14 Canary ..... 12 Captain Blood ..... 13 Captain Cook ..... 13 Captivation ..... 17 Cardonia ..... 7 Carolina Lee ..... 13-20 Carmelia ..... 15 Carrie ..... 17 Catherine ..... 13 Cavalcade ..... 13 Cavalier ..... 19 Celestra ..... 7 Ceres ..... 17 Charter Oak ..... 15 Chas. Rager ..... 8 Chas. W. Johnson ..... 8 Chattanooga ..... 8 Chicago Pearl ..... 12 China Rose ..... 17 Christina ..... 8-20 Christmas Cheer ..... 12 Christmas Gold ..... 12 Chrome Emerald ..... 16 Chrysolora ..... 7 Cincinnati ..... 20 Citronella ..... 7 Citrus Queen ..... 16 Clara Curtis ..... 18 Clara Holford ..... 15 Clara Jameson ..... 13 Colonel F. M. Alger ..... 7 Columbus Dispatch ..... 7 Comet ..... 7 Coral Blaze ..... 16 Cora Peck Buhl ..... 11 Cora Scovil ..... 16 Cordova ..... 12 Corona ..... 7 Country Girl ..... 19 Crimson Glory ..... 19 Crimson Glow ..... 17 Crimson Splendor ..... 19 Crystal Jewell ..... 12 Crystal White ..... 12	Earliwhite ..... 12 Early Bronze ..... 18-20 Early Frost ..... 8 Early Garza Supreme ..... 16 Early Yellow ..... 17-20 Eden ..... 18 Edgar Stillman Kelly ..... 8 Edgar A. Guest ..... 19 Edith Newberry ..... 13 Edwin Seidewitz ..... 9 Elena ..... 18 Elizabeth McDowell ..... 15 Elizabeth Peterson ..... 13 Elora ..... 12 Elsa Piel ..... 17 Ember ..... 18 Emmet ..... 18 Ermalinda ..... 14 Estrelita ..... 16 Ethel ..... 13-21 Ethrelda ..... 21	<b>E</b>
Baby ..... 20 Ball of Gold ..... 12 Barbara Cummings ..... 17 Barnegat ..... 17 Beautiful Lady ..... 17 Benoit ..... 21 Benten ..... 11 Bess Witt ..... 10 Betsy Ross ..... 8 Betty Rose ..... 16 Betty Watkins ..... 13 Big Baby ..... 12 Blanche ..... 16 Blaze ..... 15 Blazing Gold ..... 7 Bobbie ..... 12 Bobette ..... 14 Bonaffon DeLuxe ..... 20 Bonnibell ..... 13-20 Bonnie Maid ..... 13 Bridal Bells ..... 12 Bright Light ..... 20 Bright Spot ..... 14 Brilliancy ..... 19 Bristolite ..... 13 Bronze Beauty ..... 13 Bronze Buckingham ..... 15-21 Bronze Chadwick ..... 9 Bronze Cushion ..... 18 Bronze Daisy ..... 15 Bronze Doty ..... 13 Bronze Frick ..... 9 Bronze Lode ..... 8-20 Bronze Mistletoe ..... 9 Bronze Norma ..... 16 Bronze Prince ..... 21 Bronze Queen ..... 13	Dainty Maid ..... 12 Daphne ..... 19 Dark Pink Jewell ..... 13 Dark Pink Norma ..... 17 Dark Pink Supreme ..... 17 Dark Pink Valencia ..... 15 Dawn ..... 15 Dazzler ..... 19 D. Baker ..... 15 Deanna ..... 19	Fairy Queen ..... 15 Faith Engel ..... 16-20 Favorite ..... 8 Fawn ..... 15 Fez ..... 13 Fire Ball ..... 14 Fire Bird ..... 13 Flashlight ..... 19 Floradora ..... 21 Floyd Gibbons ..... 9 Francis Whittlesey ..... 18 Freida ..... 17 Friendly Call ..... 8 Friendly Rival ..... 7	<b>F</b>
	Ganna ..... 19 Garnet King ..... 9 Garza Supreme ..... 16 Geronimo ..... 18 Glada ..... 18 Gladys Duckham ..... 15 Gladys Pearson ..... 9 Gleam ..... 16 Gleam o' Gold ..... 17 Glitters ..... 9-21 Glow ..... 13 Goblin ..... 18 Gold Coin ..... 12 Gold Drop ..... 11 Gold Finch ..... 11 Gold Lode ..... 7-20 Gold Tips ..... 13		<b>G</b>

Golden	Celebration	7	Jean Treadway	19	Masterpiece	14-21
Golden	Chadwick	8	Jemima	13	Mefo	8
Golden	Fairy	11	Jessie (See Madeline)	13	Melba	15-21
Golden	Glory	7-20	Jewell	13-21	Melody	19
Golden	Glow	7	Joan Piper	15	Mercury	18
Golden	Herald	11	Joan Wells	13	Minong	12
Golden	Majestic	10	Joe Beuerlein	15	Miss Flora Bowers	8
Golden	Mensa	15	J. R. Booth	10	Miss Gena Harwood	11
Golden	Mistletoe	8	Jubilee	7	Modena	12
Golden	Modena	12	Judith Anderson	17-20	Mohawk Chief	9
Golden	Mrs. Ross	8	June Arnold	10	Monument	8
Golden	Nymph	13	Justrite	9-21	Mother of Pearl	14
Golden	Oak	9	J. W. Prince	9	Mrs. Beau	13-21
Golden	October	7			Mrs. Bulkeley	14
Golden	Pearson	8	K		Mrs. Chas. Wylie	16
Golden	Pride	10	Katherine Johnston	13	Mrs. Darling	15
Golden	Sceptre	12	Kathleen Thompson	21	Mrs. Firestone	10
Golden	Splendor	11	Keystone	9	Mrs. Godfrey	15
Golden	Spray	11-20	Kimie	10	Mrs. Hooker	14
Golden	Wave	7-20	King Cushion (See Bronze Cushion)	18	Mrs. Kidder	7
Good	News	7	King Midas	17	Mrs. Leeds	10
Governor	Green	9	Kuzuka	19	Mrs. Mason	10
Governor	Lake	13			Mrs. Rotan	17
Graceland		16-20	L		Mrs. Roy	9
Grace	Sturgis	10	Laelia	21	Mrs. Stahelin	9
Granny	Scovill	18	La France	10	Muldoon	19
Grenadier		14	Lavender Lady	19	Murillo	19
Greta		12	Legal Tender	13	Muskogee	18
Gretchen	Piper	15	Leileh	13	Muskoka	13
Greystone		21	Leroy Zang (See Golden Pearson)	8		
Gypsy		21	Lighthouse	15	N	
Gypsy Girl		19	Lila Lilly	20	Nagirroc	10
	H		Lillian Caprice	21	Nancy Copeland	19
Harmony		13	Lillian Doty	14	Natoma	14
Harvard		9-21	Lilyan	19	Nellie Kleris	14
Harvest	Moon	10	Linda Lou	17	New York	13
Hasegawa	Gold	12	Little America	16	Niobe	18
Hasegawa	Pink	15	Little Amethyst	21	Norma	17
Hasegawa	Poinsettia	15	Little Bob	18	Normandie	18
Hebe		19	Lois	11-20	November Bronze	13
Helen	Frick	9	Long Island Beauty	17	Nubian	13
Helen	Hubbard	14	Long Island Sunshine	12	Nuggets	11-20
Helios		16	Lorelei	17		
Highlights		14	Loretta	8	O	
Hilda	Bergen	9	Loris	13	Oak Leaf	9
Honey	Dew	7	Louisa Pockett	10	Oconto	8
Hope	Engel	21	Louise Schling	18	October Pink	15
	I		Lustre	9	October Rose	9
Ida	Improved	11			Ohio State	20
Ida	Skiff	15	M		Ohkwan	10
Improved	December Beauty	8	Madeline (See Jessie)	13	Old Rose	9
Improved	Tobin's Late Yellow	8	Majestic	10	Olivia	14
Improved	W. H. Waite	10	Major Bonnaffon	7	Orange Wonder	18
Improved	Yellow Chattha- nooga	8	Major Bowes	9	Orchid Beauty	17-21
Indianapolis	Bronze	9	Malinta	18	Orchid Queen	9
Indianapolis	Pink	9	Manantico	18	Orion	17
Indianola		8	Mandarin	18	Otsego	18
Indian Chief		9	Margo	21		
Indian Summer		18	Margot	18	P	
Innocence		18	Marian Uffinger	10	Pale Moon	17
Irene		12-20	Marianna	12	Panola	18
Irene Hayes		16	Marie de Petris	8	Pagosa	14
Irene Rich		14	Marie Tashima	10	Passumpsic	19
Isola		21	Marietta	16	Patricia Grace	10
	J		Marisa	18	Patsy Dowd	14
Jack	Bannister	17	Maritza	16	Patty	21
Jane		15	Marketeer	8	Pearl	12
Jane Harte		19	Mars	19	Peggy Ann Hoover	11
Japanese	Maiden	11	Mary Lennon Hall	11	Peggy Poesch	13
Jean	Cummings	18	Mary Pickford	12-20	Penguin	12
			Masaka	11	Persian Rose	13-21
			Mason's Bronze	15	Peter John	9
					Pink Beauty	21
					Pink Chadwick	9

Pink	Chief	9	Sam Caswell	10	W																																																																																																	
Pink	Cushion (See Amelia)	18	Sandra	19	Western Beauty	14																																																																																																
Pink	Delight	9	Saturn	18	White Anemone	16																																																																																																
Pink	Dot	14	Sea Gull	12	White Caprice	20																																																																																																
Pink	Lustre	18	Secretary Nehrling	7	White Chadwick	8																																																																																																
Pink	Mistletoe	9	Seminole	18	White Chief	8																																																																																																
Pink	Pearl	13	September Queen	18	White Chieftain	8																																																																																																
Pink	Spoon	19	Shasta	16	White Cushion	18																																																																																																
Pink	Treasure	9	Silver Ball	12	White Distinction	8																																																																																																
Pink	Turner	10	Silver Bells	12	White Doty	12																																																																																																
Pirate	Gold	13	Silver Drops	11	White Frick	8																																																																																																
Pohatcong		19	Silver Emblem	15	White Godfrey	15																																																																																																
Pomponette		20	Silver Sheen	8	White Gull	18																																																																																																
Pride of Tokyo		11	Silver Star	12	White Izola	20																																																																																																
Princeton		13	Silver Tips	14	White Jewell	12-20																																																																																																
Prosperity		14	Smith's Early White	8	White Mensa	15																																																																																																
Provence		18	Smith's Innocence	16	White Mistletoe	8																																																																																																
Psyche		18	Smith's Late White	8	White Norma	16																																																																																																
Purple	Caprice	21	Smith's Superlative	7-20	White Pearl	12																																																																																																
Pygmy		21	Snow	12	White Sensation	10																																																																																																
Pygmy	Gold	17	Snow Cloud	12	White Spoon	18																																																																																																
Q						White Supreme	16																																																																																															
Quaker	Maid	8	Snow White	8	White Tonquin	12																																																																																																
Queen	Cushion (See White Cushion)	18	Sonia	19	White Yuletide	12																																																																																																
Queen	of Pinks	21	Sonoma	18	W. H. Buckingham	15-21																																																																																																
R						Whittier	7																																																																																															
Radiant		15	Source d' Or	13	W. H. Lincoln	20																																																																																																
Rayonnante	(See Patricia Grace)	10	Stately White	8	W. H. Waite	10																																																																																																
Red	Beu	13-21	Stoplight	17	Wildfire	13																																																																																																
Red	Cushion	19	Sunburst	15	William Didden	7																																																																																																
Red	Daisy	15	Sunglow	7	William Turner	10																																																																																																
Red	Doty	14	Sun Gold	8-20	Winnetka	18																																																																																																
Red	Flare	19	Sunkist	18	Woburn	15																																																																																																
Red	Hussar	19	Sunny Boy	15	Wolverine	17																																																																																																
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Red	Majestic	10	Sunshine	16	Yamabuki	10																																																																																																
Red	Melba	15-21	Suntan	13	Yellow Ambassador	7																																																																																																
Red	Princeton	14	Suzanne Miller	16	Yellow Beauty	20																																																																																																
Red	Rolinda	16-21	Swan	16	Yellow Blanche	16																																																																																																
Red	Rover	15	Symphony	19	Yellow Caprice	20																																																																																																
Red	Spoon	19	T		Yellow Chattanooga	8																																																																																																
Reverend	Horace Bushnell	12	Tagoya	15	Yellow Cordova	12																																																																																																
Richard	Mandel	20	Tango	13-20	Yellow Cushion	17																																																																																																
Richmond		7	Tasiva	18	Yellow Daisy	15																																																																																																
Rising	Sun	14	Thanksgiving Pink	9	Yellow December Glory	8																																																																																																
R. M.	Hatton	17	The Belle	16	Yellow Dot	11																																																																																																
R. M.	Calkins	8	The Dean	10	Yellow Doty	11																																																																																																
Roberta	Copeland	18	The Moor	18	Yellow Fellow	11-20																																																																																																
Robin	Hood	14	The Titan	17	Yellow Frost	7																																																																																																
Rodell,	Improved	11-20	The Urchin	19	Yellow Garza Supreme	16																																																																																																
Rolinda		16-21	Thorina	21	Yellow Gem	17																																																																																																
Roman	Bronze	13	Thomas W. Pockett	10	Yellow Godfrey	15																																																																																																
Romany		18	Thyra	14-21	Yellow Irene	11																																																																																																
Rosabella		9	Tobin's Late Yellow	8	Yellow Izola	20																																																																																																
Rose	Charm	14	Tokyo	12	Yellow Mefo	7																																																																																																
Rose	Chochard	9-21	Tom Browne	8	Yellow Monument	7																																																																																																
Rose	Glory	9	Tom Pearson	12	Yellow New York	11																																																																																																
Rose	Glow	19	Tonquin	14	Yellow Normandie (See Barbara Cummings)	17																																																																																																
Roselea		14	Topknot	16	Yellow Pockett		10	Tuxedo	17	Rose	Marie	9	U		Yellow Princeton		12	Unalga (See Gold Coin)	12	Rose	Pearl	13	Unique	11	Yellow Rolinda		16-20	Usona	14	Rose	Perfection	9	Uvalda	12	Yellow Sea Gull		11	V		Rosy	Gem	19	Valencia	15	Yellow Silver Star		12	Venus	19	Rowenna		13	Vera Victoria (See Mary L. Hall)	11	Yellow Spoon		17	Yellow Supreme	16	Royal	Crimson	14	Vermont	10	Yellow Taggart		10	Viking	15	Royal	Queen	12	Vivid	19	Yellow Turner		10	Vulcan	18	Ruth	Cummings	19	W		Ruth	Hatton	18	Y		Saladin		19	Yomei	11	S						Yuvawn	12
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Royal	Crimson	14	Vermont	10	Yellow Taggart		10	Viking	15	Royal	Queen	12	Vivid	19	Yellow Turner		10	Vulcan	18	Ruth	Cummings	19	W		Ruth	Hatton	18	Y		Saladin		19	Yomei	11	S						Yuvawn	12																																																												
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Royal	Queen	12	Vivid	19	Yellow Turner		10	Vulcan	18	Ruth	Cummings	19	W		Ruth	Hatton	18	Y		Saladin		19	Yomei	11	S						Yuvawn	12																																																																						
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# Large Flowering Commercial Varieties

In this catalog are two duplications of names as follows:

**December Glory**—A large mum.  
**December Glory**—A pompon.

**Innocence**—A hardy Korean pompon.  
**Smith's Innocence**—A white anemone.

When either of these varieties are ordered, kindly specify clearly which is intended.

## NOTE

When variety **Gladys Pearson** is ordered, original stock will be shipped.

When **Dark Bronze Gladys Pearson** is requested, Oak Leaf will be shipped.

Under Hardy Chrysanthemums we have listed variety  
"Amelia." This is identical with variety "Pink Cushion."

X—Extra good or generally accepted best varieties.

S—Indicates varieties we find most suitable for shading.

P—Indicates varieties suitable for Pot Plants.

\*—Indicates it will be impossible for us to make delivery before May 1st.

## NOTE CAREFULLY INSTRUCTIONS FOR ORDERING ON PAGE TWO

### YELLOW

	Name and Description	Height	Select Bud	Matures	100	Price per 1000
	<b>Yellow Frost.</b> Yellow .....	Short	Early	Early	\$3.00	27.50
	<b>Golden Glow.</b> Pale golden yellow. Incurved....	Med.	Aug. 1	Oct. 1	3.00	27.50
P	<b>Gold Lode.</b> Golden yellow.....	Med.	Aug. 25	Oct. 1	3.00	27.50
*	<b>Golden October.</b> Rich golden yellow. Semi-incurved .....	Med.	Aug. 25	Oct. 10	3.00	27.50
X	<b>William Didden.</b> Yellow. Sport from Indianola....	Med.	Aug. 25	Oct. 10	3.00	27.50
XP	<b>Celestra.</b> Bright yellow .....	Med.	Ter. Bud	Oct. 15	3.00	27.50
	<b>Comet.</b> Deep lemon yellow. Incurved.....	Med.	Ter. Bud	Oct. 15	12.00	100.00
XSP	<b>Chrysolora.</b> Large incurved light yellow.....	Med.	Aug. 15	Oct. 15	3.00	27.50
	<b>Mrs. H. E. Kidder.</b> Bright yellow.....	Med.	Aug. 25	Oct. 20	3.00	27.50
X	<b>Yellow Ambassador.</b> Yellow. Sport from Ambassador .....	Med.	Ter. Bud	Oct. 25	3.00	27.50
SP	<b>Golden Wave.</b> Yellow .....	Short	Sept. 5	Oct. 25	3.00	27.50
X	<b>Blazing Gold.</b> Golden yellow.....	Med.	Ter. Bud	Oct. 25	6.00	50.00
	<b>Corona.</b> Deep yellow.....	Tall	Ter. Bud	Oct. 25	3.00	27.50
P	<b>Smith's Superlative.</b> Golden yellow.....	Med.	Aug. 25	Oct. 25	3.00	27.50
XSP	<b>Sunglow.</b> Yellow .....	Med.	Aug. 25	Oct. 25	3.00	27.50
	<b>Citronella.</b> Light yellow.....	Short	Aug. 31	Oct. 28	3.00	27.50
XSP	<b>Golden Glory.</b> Golden yellow.....	Short	Aug. 25	Nov. 1	3.00	27.50
	<b>Richmond.</b> Yellow .....	Med.	Aug. 25	Nov. 1	3.00	27.50
	<b>Col. F. M. Alger.</b> Pernet yellow.....	Med.	Sept. 5	Nov. 1	4.00	35.00
XS	<b>Good News.</b> Yellow. Sport from Detroit News. Excellent .....	Med.	Aug. 30	Nov. 1	3.00	27.50
XP	<b>Cardonia.</b> Deep rich yellow.....	Med.	Sept. 5	Nov. 10	3.00	27.50
X	<b>Whittier.</b> Yellow .....	Med.	Sept. 15	Nov. 13	3.00	27.50
X	<b>Yellow Monument.</b> Yellow. Sport from Monument .....	Med.	Sept. 10	Nov. 15	3.00	27.50
XP	<b>Columbus Dispatch.</b> Deep yellow. Large bloom..	Med.	Sept. 1	Nov. 15	3.00	27.50
	<b>Honey Dew.</b> Yellow.....	Short	Ter. Bud	Nov. 15	3.00	27.50
	<b>Jubilee.</b> Clear Bonnaffon yellow.....	Short	Ter. Bud	Nov. 15	6.00	50.00
P	<b>Secretary Nehrling.</b> Buff yellow.....	Med.	Sept. 15	Nov. 18	3.00	27.50
	<b>Golden Celebration.</b> Light yellow.....	Med.	Sept. 15	Nov. 20	5.00	27.50
	<b>Major Bonnaffon.</b> Yellow.....	Short	Sept. 10	Nov. 20	3.00	27.50
X	<b>Yellow Meto.</b> Yellow. Sport from Meto.....	Med.	Sept. 20	Nov. 20	3.00	27.50
XP	<b>Friendly Rival.</b> Large golden yellow.....	Med.	Sept. 10	Nov. 20	3.00	27.50

Enclose Your Mum With Your Seed Order

# Large Flowering Commercial Varieties (Continued)

Name and Description	Height	Select		Price per	
		Bud	Matures	100	1000
X <b>Friendly Call.</b> Buff yellow.....	Tall	Ter. Bud	Nov. 20	3.00	27.50
X <b>Marie de Petris.</b> Yellow.....	Short	Sept. 15	Nov. 23	3.00	27.50
XS <b>Golden Pearson.</b> (Leroy Zang) Yellow. Sport from Gladys Pearson.....	Med.	Sept. 30	Nov. 25	3.00	27.50
XP <b>Sun Gold.</b> Yellow.....	Med.	Sept. 30	Nov. 25	3.00	27.50
<b>Golden Chadwick.</b> Yellow.....	Med.	Ter. Bud	Nov. 25	3.00	27.50
<b>Yellow Chattanooga.</b> Light yellow.....	Med.	Sept. 20	Nov. 25	3.00	27.50
X <b>Improved Yellow Chattanooga.</b> Light yellow.....	Med.	Sept. 20	Nov. 25	8.00	75.00
<b>Loretta.</b> Intense yellow.....	Short	Aug. 30	Nov. 30	5.00	40.00
P <b>R. M. Calkins.</b> Golden yellow.....	Med.	Sept. 20	Nov. 30	3.00	27.50
<b>Yellow December Glory.</b> Light yellow.....	Tall	Sept. 30	Nov. 30	3.00	27.50
X <b>Golden Mrs. Ross.</b> Golden yellow. (Improved Nellie T. Ross.).....	Tall	Ely Oct.	Dec. 3	3.00	27.50
X <b>Golden Mistletoe.</b> Yellow.....	Med.	Sept. 30	Dec. 10	3.00	27.50
XP <b>Tobin's Late Yellow.</b> Yellow. Sport from Smith's Late White .....	Short	Sept. 30	Dec. 15	3.00	27.50
X <b>Improved Tobin's Late Yellow.</b> Deep yellow. Sport from Tobin's Late Yellow.....	Short	Sept. 30	Dec. 15	4.00	35.00

## WHITE

<b>Early Frost.</b> White.....	Short	Early	Early	3.00	27.50
<b>Smith's Early White.</b> White.....	Tall	Aug. 10	Oct. 5	3.00	27.50
XP <b>Quaker Maid.</b> White.....	Med.	Aug. 25	Oct. 15	3.00	27.50
<b>Oconto.</b> White .....	Med.	Aug. 25	Oct. 15	3.00	27.50
XS <b>Camilla.</b> White .....	Tall	Aug. 25	Oct. 18	3.00	27.50
XS <b>Silver Sheen.</b> Standard early white.....	Med.	Aug. 30	Oct. 18	3.00	27.50
P <b>Christina.</b> White. Sport from Rose Chocard.....	Short	Aug. 25	Oct. 20	3.00	27.50
P <b>White Chief.</b> White.....	Med.	Ter. Bud	Oct. 20	3.00	27.50
XP <b>Ambassador.</b> Large long stemmed white.....	Med.	Ter. Bud	Oct. 23	3.00	27.50
* <b>Albatross.</b> Pure white.....	Med.	Ter. Bud	Nov. 1	6.00	50.00
XS <b>Snow White.</b> White.....	Med.	Ter. Bud	Nov. 1	3.00	27.50
X <b>Stately White.</b> White.....	Tall	Ter. Bud	Nov. 1	3.00	27.50
XS <b>Betsy Ross.</b> Finely shaped white.....	Tall	Aug. 25	Nov. 1	3.00	27.50
XS <b>White Chieftain.</b> White.....	Short	Aug. 30	Nov. 5	3.00	27.50
X <b>Chas. W. Johnson.</b> A standard white.....	Med.	Sept. 10	Nov. 5	3.00	27.50
<b>Chas. Rager.</b> White.....	Med.	Sept. 15	Nov. 10	3.00	27.50
X <b>Monument.</b> White .....	Med.	Sept. 10	Nov. 15	3.00	27.50
P <b>Edgar Stillman Kelly.</b> White.....	Med.	Sept. 15	Nov. 15	3.00	27.50
P <b>Favorite.</b> White.....	Med.	Sept. 5	Nov. 15	3.00	27.50
XS <b>Marketeer.</b> Finest late white.....	Med.	Ter. Bud	Nov. 18	3.00	27.50
X <b>Mefo.</b> White .....	Med.	Sept. 20	Nov. 20	3.00	27.50
<b>Antarctic.</b> Incurved .....	Med.	Ter. Bud	Nov. 20	12.00	100.00
<b>Tom Browne.</b> White.....	Med.	Ter. Bud	Nov. 20	3.00	27.50
<b>White Distinction.</b> White.....	Med.	Ter. Bud	Nov. 25	3.00	27.50
P <b>White Frick.</b> White. Sport from Helen Frick.....	Short	Sept. 10	Nov. 25	3.00	27.50
X <b>Chattanooga.</b> White .....	Med.	Sept. 20	Nov. 25	3.00	27.50
X <b>White Chadwick.</b> White.....	Med.	Ter. Bud	Nov. 25	3.00	27.50
<b>Miss Flora Bowers.</b> White.....	Med.	Sept. 5	Nov. 30	5.00	40.00
X <b>December Glory.</b> White.....	Tall	Sept. 30	Dec. 1	3.00	27.50
<b>December Beauty.</b> White, tinged with pink.....	Med.	Oct. 1	Dec. 8	3.00	27.50
Improved December Beauty. Pure white. Sport from December Beauty.....	Med.	Oct. 1	Dec. 8	4.00	35.00
X <b>White Mistletoe.</b> White.....	Med.	Sept. 30	Dec. 10	3.00	27.50
XP <b>Smith's Late White.</b> White.....	Short	Sept. 30	Dec. 15	3.00	27.50

## BRONZE

<b>Bronze Lode.</b> Light bronze. Sport from Gold Lode .....	Med.	Aug. 25	Oct. 1	3.00	27.50
XS <b>Indianola.</b> Light bronze.....	Med.	Aug. 25	Oct. 10	3.00	27.50

**Poor Varieties Cost Exactly As Much To Grow As Good Ones**

# Large Flowering Commercial Varieties (Continued)

	Name and Description	Height	Select	Matures	Price per	
			Bud		100	1000
SP	Hilda Bergen. Bronze.....	Med.	Aug. 25	Oct. 25	3.00	27.50
	Keystone. Bronze .....	Med.	Aug. 30	Oct. 25	3.00	27.50
XP*	Glitters. Bright bronze.....	Med.	Ter. Bud	Oct. 28	3.00	27.50
XP	Apricot Queen. Orange bronze.....	Short	Sept. 5	Nov. 1	3.00	27.50
XS	Detroit News. Finest early bronze.....	Med.	Aug. 30	Nov. 1	3.00	27.50
X	Anna Kaskas. Golden bronze.....	Tall	Sept. 5	Nov. 5	3.00	27.50
X	Indianapolis Bronze. Buff bronze suffused with pink. Incurved .....	Med.	Ter. Bud	Nov. 8	12.00	100.00
*	Indian Chief. Deep reddish bronze; golden buff reverse .....	Med.	Sept. 5	Nov. 10	3.00	27.50
	Mrs. A. J. Stahelin. Bronze with reverse petals, yellow .....	Med.	Ter. Bud	Nov. 15	3.00	27.50
	Golden Oak. Golden bronze.....	Med.	Ter. Bud	Nov. 18	3.00	27.50
	Gladys Pearson. Good light bronze.....	Med.	Sept. 30	Nov. 25	3.00	27.50
X	Oak Leaf. Dark bronze.....	Med.	Sept. 30	Nov. 25	3.00	27.50
XP	Bronze Frick. Bronze. Sport from Helen Frick....	Short	Sept. 10	Nov. 25	3.00	27.50
	Bronze Chadwick. Bronze.....	Med.	Ter. Bud	Nov. 25	3.00	27.50
X	Bronze Mistletoe. Bronze.....	Med.	Sept. 30	Dec. 10	3.00	27.50

## PINK

	Rose Marie. Pink.....	Tall	Aug. 5	Oct. 1	3.00	27.50
	Lustre. Pink .....	Short	Aug. 25	Oct. 10	3.00	27.50
XS	Pink Chief. Pink.....	Tall	Ter. Bud	Oct. 15	3.00	27.50
SP	Justrite. Pink .....	Short	Ter. Bud	Oct. 15	3.00	27.50
XS	Rose Glory. Pink.....	Med.	Ter. Bud	Oct. 20	3.00	27.50
	Major Ed. Bowes. Pink. Medium length stem.....	Med.	Aug. 30	Oct. 20	3.00	27.50
X	October Rose. Pink.....	Med.	Sept. 5	Oct. 20	3.00	27.50
P	Rose Chocard. Pink.....	Short	Aug. 15	Oct. 20	3.00	27.50
	Rosabella. Rose pink. Incurved.....	Med.	Ter. Bud	Oct. 25	12.00	100.00
	Pink Delight. Rose pink.....	Tall	Sept. 10	Nov. 1	3.00	27.50
	Old Rose. Pink.....	Med.	Sept. 10	Nov. 1	3.00	27.50
XSP	J. W. Prince. (Improved Chieftain) Light pink.	Short	Aug. 30	Nov. 5	3.00	27.50
X	Indianapolis Pink. Excellent light lavender. Darker reverse .....	Med.	Ter. Bud	Nov. 8	3.00	27.50
P	Floyd Gibbons. Salmon pink with buff reverse....	Short	Sept. 15	Nov. 10	3.00	27.50
	Rose Perfection. Pink.....	Short	Sept. 10	Nov. 10	3.00	27.50
	Pink Treasure. Pink.....	Short	Sept. 20	Nov. 10	3.00	27.50
*	Orchid Queen. Orchid pink.....	Med.	Ter. Bud	Nov. 10	3.00	27.50
X	Dr. Enguehard. Rose pink.....	Med.	Sept. 5	Nov. 20	3.00	27.50
XP	Peter John. Light pink. Sport from Thanksgiving Pink .....	Short	Sept. 15	Nov. 23	3.00	27.50
P	Thanksgiving Pink. Dark pink.....	Short	Sept. 15	Nov. 23	3.00	27.50
	Distinction. Pink .....	Med.	Ter. Bud	Nov. 25	3.00	27.50
XP	Helen Frick. Pink .....	Med.	Sept. 10	Nov. 25	3.00	27.50
	Pink Chadwick. Pink.....	Med.	Ter. Bud	Nov. 25	3.00	27.50
*	Edwin Seidewitz. Bright pink.....	Tall	Sept. 15	Nov. 30	3.00	27.50
X	Pink Mistletoe. Pink.....	Med.	Sept. 30	Dec. 10	3.00	27.50

## RED

	Governor Green. Crimson with old gold reverse..	Short	Aug. 15	Oct. 15	3.00	27.50
X	Mrs. David F. Roy. Crimson with bronze reverse; Excellent .....	Short	Sept. 15	Nov. 8	3.00	27.50
XP	Garnet King. Deep, bright red.....	Med.	Sept. 20	Nov. 18	3.00	27.50
P	Harvard. Crimson .....	Med.	Sept. 30	Nov. 30	3.00	27.50
X	Mohawk Chief. Crimson.....	Med.	Oct. 1	Nov. 30	3.00	27.50

**New Varieties Are Increasing The Value Of Mums Annually**

# Exhibition Varieties

NOTE CAREFULLY INSTRUCTIONS FOR ORDERING ON PAGE TWO

## YELLOW

Name and Description	Height	Select Bud	Matures	Price per
				100 1000
<b>Harvest Moon.</b> Bright yellow.....	Short	Ter. Bud	Oct. 25	\$5.00 per doz.
X <b>Golden Majestic.</b> Bright yellow.....	Short	Aug. 20	Nov. 1	8.00 75.00
J. R. Booth. Yellow.....	Med.	Aug. 15	Nov. 1	8.00 75.00
X <b>Yellow Turner.</b> Yellow.....	Med.	Aug. 25	Nov. 5	6.00 50.00
X <b>Yellow Pockett.</b> Yellow.....	Med.	Aug. 15	Nov. 8	8.00 75.00

## WHITE

Alice Benson. White.....	Med.	Aug. 30	Nov. 1	8.00 75.00
X William Turner. White.....	Med.	Aug. 25	Nov. 5	6.00 50.00
X Louisa Pockett. White.....	Med.	Aug. 15	Nov. 8	8.00 75.00

## BRONZE

X <b>Majestic.</b> Clear, shiny amber bronze.....	Short	Aug. 20	Nov. 1	8.00 75.00
X <b>Mrs. H. S. Firestone.</b> Chamois buff.....	Short	Aug. 25	Nov. 1	8.00 75.00
X <b>Marian H. Uffinger.</b> Bronzy crimson with a gold reverse .....	Med.	Aug. 20	Nov. 1	8.00 75.00
Nagirroc. Golden bronze.....	Med.	Aug. 15	Nov. 1	8.00 75.00
X <b>Bronze Turner.</b> Light bronze.....	Med.	Aug. 25	Nov. 5	6.00 50.00
W. H. Waite. Bronze.....	Short	Aug. 15	Nov. 5	6.00 50.00

## PINK

La France. Purple.....	Med.	Aug. 15	Nov. 1	6.00 50.00
X Dr. J. M. Inglis. Wine purple amaranth with silver reverse .....	Tall	Aug. 25	Nov. 1	8.00 75.00
X Pink Turner. (Mrs. Leslie Davis) Pink.....	Med.	Aug. 25	Nov. 5	6.00 50.00
X Thos. W. Pockett. Pink.....	Med.	Aug. 15	Nov. 8	8.00 75.00
X Vermont. Pink .....	Tall	Aug. 25	Nov. 8	8.00 75.00

## RED

X Grace Sturgis. Wine red with pinkish-silver reverse .....	Tall	Aug. 25	Nov. 1	6.00 50.00
X Red Majestic. Bronzy red.....	Short	Aug. 25	Nov. 1	8.00 75.00
Mrs. G. G. Mason. Blood red with golden reverse .....	Med.	Aug. 20	Nov. 1	8.00 75.00
X Improved W. H. Waite. Red.....	Short	Aug. 15	Nov. 5	6.00 50.00
Mrs. Jules Leeds. Blood red.....	Short	Aug. 25	Nov. 8	8.00 75.00

# Odd Formed--Feathery and Threadlike--Varieties

NOTE CAREFULLY INSTRUCTIONS FOR ORDERING ON PAGE TWO

Name and Description	Height	Select Bud	Matures	Price per
				100 1000
White Sensation. White.....	Med.	Ter. Bud	Nov. 1	\$8.00 \$75.00
Kimie. Golden bronze.....	Med.	Ter. Bud	Nov. 1	8.00 75.00
Marie Tashima. White.....	Tall	Ter. Bud	Nov. 1	8.00 75.00
Golden Pride. Golden yellow.....	Short	Ter. Bud	Nov. 1	8.00 75.00
Yamabuki. Yellow .....	Med.	Ter. Bud	Nov. 1	8.00 75.00
Sam Caswell. Light rose pink.....	Med.	Ter. Bud	Nov. 1	6.00 50.00
X Yellow Taggart. Yellow quilled petals covered with hair .....	Med.	Ter. Bud	Nov. 1	6.00 50.00
X Ohkwan. Yellow .....	Med.	Ter. Bud	Nov. 1	6.00 50.00
The Dean. White.....	Med.	Ter. Bud	Nov. 1	6.00 50.00
June Arnold. White with cream center.....	Short	Ter. Bud	Nov. 5	8.00 75.00
Bess Witt. Bronze. (Sport from Peggy Ann Hoover) .....	Short	Ter. Bud	Nov. 5	8.00 75.00
X Patricia Grace. (Rayonnante) Shell pink.....	Med.	Ter. Bud	Nov. 5	6.00 50.00

A Few Exhibition Varieties Well Grown Is An Attraction

## Odd Formed--Feathery and Threadlike--Varieties (Continued)

Name and Description	Height	Select Bud	Matures	Price per
			100	1000
<b>Butterfly.</b> Yellow .....	Tall	Ter. Bud	Nov. 5	8.00 75.00
X <b>Peggy Ann Hoover.</b> Quilled lavender.....	Short	Ter. Bud	Nov. 5	6.00 50.00
X <b>Miss Gena Harwood.</b> Rosy mauve.....	Med.	Ter. Bud	Nov. 5	6.00 50.00
<b>Benten.</b> Bronze and deep red tips, with green center .....	Med.	Ter. Bud	Nov. 10	6.00 50.00
<b>Silver Drops.</b> White .....	Short	Ter. Bud	Nov. 10	8.00 75.00
X <b>Yomei.</b> Golden tube petals with red spoon-end tips .....	Med.	Ter. Bud	Nov. 10	6.00 50.00
X <b>Pride of Tokyo.</b> Creamy pink. A novelty with odd tubular petals .....	Tall	Ter. Bud	Nov. 10	6.00 50.00
<b>Japanese Maiden.</b> Yellow.....	Med.	Ter. Bud	Nov. 25	6.00 50.00
X <b>Unique.</b> Rich wine red.....	Tall	Ter. Bud	Dec. 1	6.00 50.00

## Pompons & Decorative Commercial Varieties

The term Pompon is applied to those varieties which are of the true rounded type, and those very nearly approaching this type.

Decorative varieties are those which are a distinct departure from the rounded type. Their flowers are less compact, partly reflexed and display more of the color of the inner side of the petals.

Size of flower is indicated by S—small; Int.—intermediate; L—large.

**X**—Extra good or generally accepted best varieties.

**S**—Indicates varieties we find most suitable for shading.

**P**—Indicates varieties suitable for Pot Plants.

**D**—Indicates smaller flowered varieties most suitable for growing as disbudded pompons.

\*—Indicates it will be impossible to make delivery before May 1st.

### NOTE CAREFULLY INSTRUCTIONS FOR ORDERING ON PAGE TWO

## YELLOW

Name and Description	Height	Type	Matures	Price per
			100	1000
<b>Ida Improved.</b> Yellow.....	Med.	Int. Pomp.	Oct. 15	\$3.00 \$27.50
<b>Yellow Irene.</b> Light lemon yellow. Sport from Irene .....	Short	S. Pomp.	Oct. 18	4.00 35.00
XSP <b>Rodell Improved.</b> Yellow. Sport from Rodell; Excellent .....	Short	Int. Pomp.	Oct. 20	3.00 27.50
D <b>Masaka.</b> Yellow .....	Med.	L. Pomp.	Oct. 20	3.00 27.50
XS <b>Gold Finch.</b> Yellow.....	Med.	Int. Pomp.	Oct. 20	3.00 27.50
XS <b>Golden Spray.</b> Yellow.....	Med.	Int. Pomp.	Oct. 23	3.00 27.50
D <b>Golden Fairy.</b> Yellow.....	Med.	L. Pomp.	Oct. 23	3.00 27.50
XPD <b>Golden Herald.</b> Large extra deep golden yellow..	Med.	L. Dec.	Oct. 25	3.00 27.50
<b>Cora Peck Buhl.</b> Yellow.....	Tall	Int. Pomp.	Oct. 25	3.00 27.50
XS <b>Yellow Dot.</b> (Jablonsky.) Yellow; reddish center	Med.	Int. Pomp.	Oct. 25	3.00 27.50
XSD <b>Mary Lennon Hall.</b> Clear rich yellow.....	Tall	Int. Pomp.	Nov. 1	3.00 27.50
<b>Gold Drop.</b> Old gold.....	Med.	Int. Pomp.	Nov. 1	3.00 27.50
XD <b>Yellow Sea Gull.</b> Yellow. Sport from Sea Gull.....	Tall	Int. Pomp.	Nov. 1	3.00 27.50
D <b>Yellow Doty.</b> Yellow.....	Med.	L. Pomp.	Nov. 1	3.00 27.50
XSP <b>Nuggets.</b> Best early yellow.....	Short	S. Pomp.	Nov. 5	3.00 27.50
X <b>Derigold.</b> Lemon yellow.....	Med.	Int. Pomp.	Nov. 10	3.00 27.50
XS <b>Yellow New York.</b> Yellow.....	Med.	S. Pomp.	Nov. 13	3.00 27.50
X <b>Golden Splendor.</b> Bright yellow.....	Med.	Int. Pomp.	Nov. 15	3.00 27.50
XSP <b>Yellow Fellow.</b> Yellow.....	Med.	Int. Dec.	Nov. 15	3.00 27.50
XP <b>Lois.</b> Golden yellow.....	Med.	S. Pomp.	Nov. 18	3.00 27.50

**We Can't Accept Orders For Less Than 10 Of A Kind**

# Pompons & Decorative Commercial Varieties

## YELLOW (Continued)

	Name and Description	Height	Type	Matures	Price per 100	Price per 1000
X	Tom Pearson. Deep yellow.....	Med.	Int. Pomp.	Nov. 18	3.00	27.50
	Yellow Princeton. Deep lemon yellow.....	Med.	Int. Dec.	Nov. 20	8.00	75.00
PD	Ball of Gold. Yellow.....	Med.	Int. Pomp.	Nov. 20	3.00	27.50
X	Big Baby. Yellow.....	Med.	S. Pomp.	Nov. 20	3.00	27.50
	Hasegawa Gold. Large golden yellow.....	Med.	Int. Pomp.	Nov. 23	3.00	27.50
X	Golden Sceptre. Yellow.....	Tall	Int. Pomp.	Nov. 25	3.00	27.50
	Long Island Sunshine. Bright yellow.....	Tall	Int. Pomp.	Nov. 28	3.00	27.50
P	Yellow Yuletide. Yellow.....	Short	Int. Pomp.	Nov. 28	3.00	27.50
X	Christmas Gold. Bright yellow.....	Med.	S. Pomp.	Nov. 28	3.00	27.50
	Canary. Pale lemon yellow.....	Med.	Int. Pomp.	Nov. 28	12.00	100.00
X	Yellow Cordova. Yellow. Sport from Cordova.....	Med.	Int. Dec.	Nov. 30	3.00	27.50
XD	Gold Coin. (Unalga) Yellow.....	Med.	Int. Pomp.	Dec. 1	3.00	27.50
XPD	Yuvawn. Yellow .....	Med.	Int. Pomp.	Dec. 3	3.00	27.50
X	Modena. Yellow .....	Med.	Int. Pomp.	Dec. 5	3.00	27.50
X	Golden Modena. Deep golden yellow. Sport from Modena .....	Med.	Int. Pomp.	Dec. 5	4.00	35.00
X	Tokyo. Yellow .....	Med.	S. Dec.	Dec. 10	3.00	27.50
X	Buttercup. Yellow .....	Tall	Int. Pomp.	Dec. 10	3.00	27.50
X*	Yellow Silver Star. Yellow. Sport from Silver Star .....	Tall	Int. Pomp.	Dec. 10	3.00	27.50
X	December Gold. Deep golden yellow.....	Med.	Int. Dec.	Dec. 15	8.00	75.00
X	Christmas Cheer. Deep yellow.....	Med.	Int. Pomp.	Dec. 15	3.00	27.50

## WHITE

	Earliwhite. White .....	Med.	Int. Pomp.	Oct. 10	3.00	27.50
	Uvalda. Creamy white .....	Med.	Int. Pomp.	Oct. 10	3.00	27.50
XSP	White Jewell. White suffused with pink.....	Short	S. Pomp.	Oct. 15	3.00	27.50
SD	Silver Ball. White.....	Med.	L. Pomp.	Oct. 15	3.00	27.50
	Snow Cloud. White.....	Med.	Int. Pomp.	Oct. 15	3.00	27.50
XSP	Irene. White .....	Short	S. Pomp.	Oct. 18	3.00	27.50
	Greta. White .....	Med.	Int. Pomp.	Oct. 20	3.00	27.50
XS	Minong. White .....	Med.	S. Pomp.	Oct. 20	3.00	27.50
P	Silver Bells. White.....	Med.	S. Pomp.	Oct. 23	3.00	27.50
XS	Arcadia. Finest pure white.....	Med.	Int. Pomp.	Oct. 28	3.00	27.50
	White Pearl. White suffused with pink. Sport from Rose Pearl.....	Med.	Int. Pomp.	Oct. 28	12.00	100.00
XSD	Sea Gull. White.....	Tall	Int. Pomp.	Nov. 1	3.00	27.50
D	Marianna. White .....	Med.	L. Pomp.	Nov. 1	3.00	27.50
X	Dainty Maid. White, tinged with pink.....	Med.	S. Pomp.	Nov. 1	3.00	27.50
XP	Mary Pickford. White.....	Short	S. Pomp.	Nov. 1	3.00	27.50
XSD	White Doty. White.....	Med.	L. Pomp.	Nov. 1	3.00	27.50
XSD	Elora. Pearly white.....	Tall	L. Pomp.	Nov. 1	3.00	27.50
XS	Rev. Horace Bushnell. White.....	Tall	Int. Pomp.	Nov. 8	3.00	27.50
X	Crystal Jewell. White.....	Tall	S. Pomp.	Nov. 8	3.00	27.50
D	Crystal White. White.....	Tall	Int. Pomp.	Nov. 10	3.00	27.50
	Penguin. White .....	Med.	S. Pomp.	Nov. 10	3.00	27.50
X	Chicago Pearl. Finest clear white.....	Med.	Int. Pomp.	Nov. 15	3.00	27.50
	Bobbie. Large creamy white.....	Med.	S. Pomp.	Nov. 18	3.00	27.50
	Pearl. White .....	Tall	Int. Pomp.	Nov. 20	8.00	75.00
XP	White Yuletide. White.....	Short	Int. Pomp.	Nov. 28	3.00	27.50
X	Cordova. White .....	Med.	Int. Dec.	Nov. 30	3.00	27.50
	Royal Queen. White.....	Med.	Int. Pomp.	Dec. 5	3.00	27.50
	White Tonquin. Pure white. Sport from Tonquin	Med.	Int. Pomp.	Dec. 10	5.00	40.00
X*	Silver Star. White.....	Tall	Int. Pomp.	Dec. 10	3.00	27.50
X	December Glory. (Pompon) White.....	Med.	Int. Dec.	Dec. 15	3.00	27.50
	Bridal Bells. White.....	Med.	Int. Dec.	Dec. 15	3.00	27.50
X	Snow. Ivory white.....	Med.	Int. Pomp.	Dec. 30	8.00	75.00

If Your Express Differs From Your Post Office, Tell Us

# Pompons & Decorative Commercial Varieties (Continued)

## BRONZE

	Name and Description	Height	Type	Matures	Price per	100	1000
	<b>Clara Jameson.</b> Dark reddish bronze.....	Med.	S. Pomp.	Oct. 15	3.00	27.50	
	<b>Nubian.</b> Bronzy red .....	Tall	Int. Pomp.	Oct. 15	3.00	27.50	
XP	<b>Bonnibell.</b> Orange buff.....	Short	S. Pomp.	Oct. 15	3.00	27.50	
D	<b>Tango.</b> Reddish bronze .....	Med.	L. Pomp.	Oct. 15	7.00	65.00	
	<b>Carlina Lee.</b> Reddish bronze.....	Med.	Int. Dec.	Oct. 20	3.00	27.50	
XS	<b>Roman Bronze.</b> Bronze. Sport from Capt. Cook	Tall	Int. Pomp.	Oct. 20	3.00	27.50	
P	<b>Suntan.</b> Bronze .....	Med.	Int. Pomp.	Oct. 20	3.00	27.50	
X	<b>Adelaide.</b> Mahogany .....	Med.	S. Pomp.	Oct. 23	3.00	27.50	
XS	<b>Jemima.</b> Bronze .....	Med.	Int. Pomp.	Oct. 23	3.00	27.50	
S*	<b>Bronze Queen.</b> Dark bronze.....	Tall	S. Pomp.	Oct. 25	3.00	27.50	
P	<b>Ethel.</b> Bronze .....	Med.	S. Pomp.	Oct. 25	3.00	27.50	
	<b>Joan Wells.</b> Bronze. Sport from Pink Dot.....	Med.	Int. Pomp.	Oct. 25	3.00	27.50	
XS	<b>Fire Bird.</b> Red bronze.....	Med.	Int. Dec.	Oct. 25	3.00	27.50	
	<b>Bronze Doty.</b> Bronze.....	Med.	Int. Pomp.	Nov. 1	3.00	27.50	
S	<b>Source D'Or.</b> Bronze.....	Med.	Int. Dec.	Nov. 1	3.00	27.50	
X	<b>Elizabeth Peterson.</b> Orange bronze.....	Med.	Int. Dec.	Nov. 3	3.00	27.50	
XD*	<b>Edith Newberry.</b> Orange rust.....	Tall	L. Dec.	Nov. 5	3.00	27.50	
X	<b>Peggy Poesch.</b> Brilliant apricot.....	Med.	L. Dec.	Nov. 10	4.00	35.00	
D	<b>Muskoka.</b> Bronze .....	Tall	L. Pomp.	Nov. 10	3.00	27.50	
	<b>Pirate Gold.</b> Rich golden bronze.....	Med.	Int. Pomp.	Nov. 10	6.00	50.00	
XS	<b>New York.</b> Bronze.....	Med.	S. Pomp.	Nov. 13	3.00	27.50	
XS	<b>Fex.</b> Deep bronze.....	Med.	S. Pomp.	Nov. 15	3.00	27.50	
XSP	<b>Princeton.</b> Golden yellow suffused with orange..	Med.	Int. Dec.	Nov. 15	3.00	27.50	
XP*	<b>November Bronze.</b> Orange bronze.....	Med.	Int. Pomp.	Nov. 18	3.00	27.50	
	<b>Catherine.</b> Bronze .....	Med.	Int. Dec.	Nov. 20	3.00	27.50	
X	<b>Legal Tender.</b> Bronze and gold.....	Med.	Int. Dec.	Nov. 20	3.00	27.50	
X	<b>Bronze Beauty.</b> Bronze.....	Med.	Int. Pomp.	Nov. 25	3.00	27.50	
	<b>Betty Watkins.</b> Bronzy yellow.....	Med.	Int. Pomp.	Nov. 25	3.00	27.50	
D	<b>Capt. Blood.</b> Dark reddish bronze.....	Med.	L. Dec.	Nov. 25	3.00	27.50	
*D	<b>Dorothy Turner.</b> Bronze.....	Med.	Int. Pomp.	Nov. 25	3.00	27.50	
	<b>Dusky Maid.</b> Rich red and gold.....	Tall	Int. Pomp.	Nov. 25	6.00	50.00	
P	<b>Governor Lake.</b> Reddish bronze.....	Short	Int. Pomp.	Nov. 25	3.00	27.50	
P	<b>Mrs. Beu.</b> Standard bronze.....	Short	Int. Dec.	Nov. 25	3.00	27.50	
P	<b>Red Beu.</b> Reddish bronze.....	Short	Int. Dec.	Nov. 25	3.00	27.50	
X*	<b>Bristolite.</b> Bronze .....	Med.	Int. Pomp.	Nov. 25	3.00	27.50	
X	<b>Gold Tips.</b> Bronze and gold.....	Med.	Int. Dec.	Nov. 25	3.00	27.50	
	<b>Rowenna.</b> Bronze .....	Tall	Int. Pomp.	Nov. 25	3.00	27.50	
X	<b>Glow.</b> Orange. Reddish orange at center.....	Med.	Int. Pomp.	Nov. 30	3.00	27.50	
X	<b>Avalon.</b> Orange bronze.....	Med.	Int. Dec.	Dec. 1	3.00	27.50	
	<b>Loris.</b> Bronze .....	Med.	Int. Dec.	Dec. 1	3.00	27.50	
	<b>Wildfire.</b> Orange rust.....	Med.	Int. Dec.	Dec. 3	3.00	27.50	
	<b>Harmony.</b> Red orange, with soft bronze shading	Med.	Int. Pomp.	Dec. 3	4.00	35.00	
	<b>Golden Nymph.</b> Bronze, with reverse of petals	Med.	S. Pomp.	Dec. 10	3.00	27.50	
	gold .....	Med.	Int. Pomp.	Dec. 10	5.00	40.00	
	<b>Katherine Johnston.</b> Orange.....	Med.	Int. Pomp.	Dec. 10	4.00	35.00	
	<b>Calvadade.</b> Mandarin red. Golden bronze reverse	Med.	Int. Pomp.	Dec. 10	4.00	35.00	

## PINK

XSP	<b>Jewell.</b> Bright rose pink.....	Short	S. Pomp.	Oct. 15	3.00	27.50	
P	<b>Dark Pink Jewell.</b> Dark pink. Sport from Jewell..	Short	S. Pomp.	Oct. 15	3.00	27.50	
	<b>Leileh.</b> Rose pink.....	Med.	Int. Dec.	Oct. 15	3.00	27.50	
	<b>Bonnie Maid.</b> Pink.....	Med.	Int. Pomp.	Oct. 20	3.00	27.50	
	<b>Pink Pearl.</b> Pink.....	Med.	S. Pomp.	Oct. 20	4.00	35.00	
XS	<b>Capt. Cook.</b> Pink .....	Tall	Int. Pomp.	Oct. 20	3.00	27.50	
P	<b>Persian Rose.</b> Rose pink.....	Short	Int. Pomp.	Oct. 23	3.00	27.50	
	<b>Rose Pearl.</b> Lavender.....	Med.	Int. Pomp.	Oct. 23	12.00	100.00	
X	<b>Jessie.</b> (Madeline) Deep rose pink. Excellent....	Med.	Int. Pomp.	Oct. 25	3.00	27.50	

Some Of The Latest Anemones Are Highly Attractive

# Pompons & Decorative Commercial Varieties (Continued)

## PINK

Name and Description	Height	Type	Matures	Price per	
				100	1000
PD <b>Angello.</b> Light pink.....	Short	L. Pomp.	Oct. 25	3.00	27.50
D <b>Nellie Kleris.</b> Lavender pink.....	Tall	L. Pomp.	Oct. 25	3.00	27.50
XS <b>Pink Dot.</b> White, with pink center. Very excellent .....	Med.	Int. Pomp.	Oct. 25	3.00	27.50
<b>Highlights.</b> Pale lavender with deep lavender center .....	Med.	Int. Pomp.	Oct. 25	3.00	27.50
<b>Ermalinda.</b> Old rose.....	Med.	S. Pomp.	Oct. 25	3.00	27.50
<b>Rising Sun.</b> Pink.....	Med.	Int. Pomp.	Oct. 28	4.00	35.00
S <b>Bright Spot.</b> Shell pink. Bright center.....	Med.	S. Pomp.	Nov. 1	3.00	27.50
XD <b>Irene Rich.</b> Pink.....	Med.	L. Pomp.	Nov. 1	3.00	27.50
XD <b>Lillian Doty.</b> Shell pink.....	Med.	L. Pomp.	Nov. 1	3.00	27.50
D <b>Rose Charm.</b> Rose pink.....	Med.	L. Pomp.	Nov. 1	3.00	27.50
XS <b>Mrs. Morgan G. Bulkeley.</b> Light pink.....	Tall	Int. Pomp.	Nov. 8	3.00	27.50
XPD <b>Thyra.</b> Dark pink.....	Med.	L. Pomp.	Nov. 10	3.00	27.50
XS <b>Silver Tips.</b> Bright pink with silver tips.....	Med.	Int. Pomp.	Nov. 13	3.00	27.50
XP <b>Alice.</b> Pink .....	Med.	Int. Dec.	Nov. 15	3.00	27.50
XD <b>Masterpiece.</b> Tourmaline pink.....	Med.	Int. Pomp.	Nov. 15	3.00	27.50
<b>Dorothy Nehrling.</b> Deep rose pink.....	Med.	S. Pomp.	Nov. 15	3.00	27.50
<b>Western Beauty.</b> Pink.....	Short	Int. Dec.	Nov. 20	3.00	27.50
<b>Bobette.</b> Pink with bronze center.....	Med.	S. Pomp.	Nov. 25	10.00	90.00
X <b>Usona.</b> Pink .....	Med.	Int. Pomp.	Nov. 25	3.00	27.50
X <b>Olivia.</b> Pink .....	Med.	Int. Pomp.	Dec. 1	3.00	27.50
X <b>Roselea.</b> Pink .....	Med.	Int. Pomp.	Dec. 1	3.00	27.50
X <b>Pagosa.</b> Dark pink .....	Med.	Int. Pomp.	Dec. 5	3.00	27.50
<b>Amaranthea.</b> Purplish crimson.....	Med.	Int. Pomp.	Dec. 10	5.00	40.00
<b>Tonquin.</b> Rose color.....	Med.	Int. Pomp.	Dec. 10	3.00	27.50
<b>Prosperity.</b> Deep lavender.....	Med.	Int. Dec.	Dec. 10	8.00	75.00
<b>Mother of Pearl.</b> Light rose pink.....	Tall	Int. Pomp.	Dec. 30	7.00	65.00

## RED

X <b>Natoma.</b> Flame scarlet.....	Short	Int. Dec.	Oct. 25	8.00	75.00
D <b>Fire Ball.</b> Bright crimson.....	Tall	L. Pomp.	Nov. 1	3.00	27.50
D <b>Red Doty.</b> Red.....	Tall	L. Pomp.	Nov. 1	3.00	27.50
XS <b>Robin Hood.</b> Rich deep red.....	Med.	S. Pomp.	Nov. 5	3.00	27.50
XP <b>Patsy Dowd.</b> Red.....	Short	S. Pomp.	Nov. 5	3.00	27.50
<b>Grenadier.</b> Red .....	Med.	Int. Pomp.	Nov. 10	3.00	27.50
X <b>Mrs. Mary Hooker.</b> Red.....	Tall	L. Dec.	Nov. 15	3.00	27.50
X <b>Red Princeton.</b> Reddish bronze.....	Med.	Int. Dec.	Nov. 15	4.00	35.00
X <b>Campfire.</b> Red .....	Tall	Int. Dec.	Nov. 20	3.00	27.50
<b>Helen Hubbard.</b> Red.....	Med.	L. Dec.	Nov. 25	3.00	27.50
X <b>Royal Crimson.</b> Intensely rich crimson.....	Med.	L. Dec.	Dec. 1	4.00	35.00

Don't Order Varieties Not Listed In This Catalog. It Covers "All The Best"

# Single--Daisy Type--Varieties

**X**—Extra good or generally accepted best varieties.  
**S**—Indicates varieties we find most suitable for shading.  
**P**—Indicates varieties suitable for Pot Plants.  
**D**—Indicates smaller flowered varieties most suitable for growing as disbudded pompons.  
**\***—Indicates it will be impossible to make delivery before May 1st.

## NOTE CAREFULLY INSTRUCTIONS FOR ORDERING ON PAGE TWO

### YELLOW

Name and Description	Height	Size	Matures	Price per
			100	1000
<b>X</b> <b>Yellow Daisy.</b> Deep lemon yellow.....	Med.	Intermed.	Oct. 25	\$4.00 \$35.00
<b>XS*</b> <b>Gretchen Piper.</b> Yellow.....	Med.	Intermed.	Nov. 1	3.00 27.50
<b>X</b> <b>Golden Mensa.</b> Yellow.....	Med.	Intermed.	Nov. 10	3.00 27.50
<b>XD*</b> <b>Sonny Boy.</b> Yellow.....	Med.	Intermed.	Nov. 15	3.00 27.50
<b>Charter Oak.</b> Yellow.....	Tall	Intermed.	Nov. 25	3.00 27.50
<b>Yellow Godfrey.</b> Yellow.....	Tall	Intermed.	Nov. 25	3.00 27.50
<b>XD</b> <b>Jane.</b> Yellow. Sport from Valencia.....	Tall	Large	Nov. 30	3.00 27.50
<b>X</b> <b>Fawn.</b> Deep buff yellow.....	Med.	Intermed.	Dec. 5	8.00 75.00

### WHITE

<b>Silver Emblem.</b> Cream white.....	Med.	Intermed.	Nov. 1	8.00 75.00
<b>X</b> <b>White Mensa.</b> White.....	Med.	Intermed.	Nov. 10	3.00 27.50
<b>Gladys Duckham.</b> White.....	Med.	Intermed.	Nov. 20	3.00 27.50
<b>White Godfrey.</b> White.....	Tall	Intermed.	Nov. 25	3.00 27.50

### BRONZE

<b>X*</b> <b>Absolute.</b> Scarlet bronze with yellow center.....	Med.	Intermed.	Nov. 1	3.00 27.50
<b>X</b> <b>Aloma.</b> Terra cotta bronze with yellow center..	Med.	Intermed.	Oct. 20	3.00 27.50
<b>X</b> <b>Bronze Daisy.</b> Light bronze.....	Med.	Intermed.	Oct. 25	4.00 35.00
<b>XD</b> <b>Joan Piper.</b> Amber bronze.....	Med.	Intermed.	Oct. 28	3.00 27.50
<b>P</b> <b>Ida Skiff.</b> Bronze.....	Short	Intermed.	Nov. 1	3.00 27.50
<b>XP</b> <b>Bronze Buckingham.</b> Bronze.....	Short	Intermed.	Nov. 3	3.00 27.50
<b>XD</b> <b>Mason's Bronze.</b> Burnt orange .....	Short	Large	Nov. 10	3.00 27.50
<b>XSD</b> <b>Lighthouse.</b> Bronze shading to watermelon red..	Med.	Intermed.	Nov. 10	3.00 27.50
<b>XPD*</b> <b>Melba.</b> Reddish bronze.....	Short	Large	Nov. 15	3.00 27.50
<b>X</b> <b>Elizabeth McDowell.</b> Bronze.....	Med.	Intermed.	Nov. 15	3.00 27.50
<b>XP*</b> <b>Sunburst.</b> Sunburst orange.....	Med.	Large	Nov. 25	3.00 27.50
<b>Viking.</b> Deep reddish bronze shading to orange..	Med.	Intermed.	Dec. 1	8.00 75.00
<b>Dawn.</b> (Hasegawa) Chestnut bronze.....	Tall	Intermed.	Dec. 5	3.00 27.50

### PINK

<b>XS</b> <b>October Pink.</b> Pink.....	Med.	Intermed.	Oct. 25	4.00 35.00
<b>XP</b> <b>W. H. Buckingham.</b> Pink.....	Short	Intermed.	Nov. 3	3.00 27.50
<b>P*Fairy Queen.</b> Intense orchid pink.....	Short	Intermed.	Nov. 15	4.00 35.00
<b>X</b> <b>Woburn.</b> Pink .....	Tall	Intermed.	Nov. 15	3.00 27.50
<b>X</b> <b>Hasegawa Pink.</b> Pink with golden center.....	Med.	Intermed.	Nov. 25	3.00 27.50
<b>Mrs. E. D. Godfrey.</b> Light pink.....	Tall	Intermed.	Nov. 25	3.00 27.50
<b>XD</b> <b>Valencia.</b> Orchid pink.....	Tall	Large	Nov. 30	3.00 27.50
<b>XD</b> <b>Dark Pink Valencia.</b> Deep orchid pink.....	Tall	Large	Nov. 30	8.00 75.00

### RED

<b>D. Baker.</b> Red.....	Short	Large	Oct. 20	3.00 27.50
<b>X</b> <b>Red Daisy.</b> Deep red.....	Med.	Intermed.	Oct. 25	4.00 35.00
<b>Mrs. Darling.</b> Red.....	Med.	Intermed.	Nov. 1	3.00 27.50
<b>XD</b> <b>Red Rover.</b> Crimson orange.....	Short	Large	Nov. 5	3.00 27.50
<b>XP*</b> <b>Tagoya.</b> Brilliant goya red.....	Short	Intermed.	Nov. 10	3.00 27.50
<b>XD</b> <b>Clara Holford.</b> Warm red.....	Med.	Large	Nov. 10	4.00 35.00
<b>Radiant.</b> Bright red.....	Med.	Intermed.	Nov. 10	3.00 27.50
<b>XPD*</b> <b>Red Melba.</b> Red.....	Short	Large	Nov. 15	3.00 27.50
<b>X</b> <b>Hasegawa Poinsettia.</b> Poinsettia red.....	Med.	Intermed.	Nov. 25	3.00 27.50
<b>XPD</b> <b>Carnelia.</b> Red .....	Short	Large	Nov. 30	3.00 27.50
<b>Joe Beuerlein.</b> Crimson red.....	Med.	Intermed.	Dec. 5	3.00 27.50
<b>Blaze.</b> Deep scarlet red.....	Tall	Intermed.	Dec. 10	8.00 75.00

**Cold Houses, Described On Following Pages Make For Quality And Economy**

# Anemone Flowered Varieties

X—Extra good or generally accepted best varieties.

P—Indicates varieties suitable for Pot Plants.

D—Indicates smaller flowered varieties most suitable for growing as disbudded pompons.

\*—Indicates it will be impossible to make delivery before May 1st.

NOTE CAREFULLY INSTRUCTIONS FOR ORDERING ON PAGE TWO

## YELLOW

	Name and Description	Height	Size	Matures	Price per
				100	1000
<b>XD</b>	<b>Yellow Blanche.</b> Yellow. Sport from Blanche.....	Med.	Intermed.	Nov. 1	\$3.00 \$27.50
<b>XD</b>	<b>Helios.</b> Yellow .....	Med.	Large	Nov. 10	4.00 35.00
<b>X</b>	<b>Sunray.</b> Yellow .....	Med.	Intermed.	Nov. 15	3.00 27.50
<b>Faith Engel.</b> Yellow, with golden yellow cushion..	Med.	Intermed.	Nov. 15	4.00 35.00	
<b>XD</b>	<b>Susanne Miller.</b> Yellow. Sport from Norma.....	Tall	Large	Nov. 18	3.00 27.50
<b>XPD</b>	<b>Yellow Rolinda.</b> Deep golden yellow. Sport from Rolinda .....	Med.	Intermed.	Nov. 23	3.00 27.50
<b>D</b>	<b>Maritza.</b> Bright yellow with full highly rounded cushion .....	Short	Large	Nov. 25	3.00 27.50
<b>PD</b>	<b>Sunshine.</b> Yellow .....	Short	Intermed.	Nov. 25	3.00 27.50
<b>XD</b>	<b>Citrus Queen.</b> Lemon orange.....	Med.	Large	Nov. 25	3.00 27.50
<b>XD</b>	<b>Gleam.</b> Deep lemon yellow.....	Med.	Large	Dec. 5	8.00 75.00
<b>XD</b>	<b>Yellow Supreme.</b> Yellow. Sport from Pink Supreme .....	Med.	Large	Dec. 10	3.00 27.50
<b>X</b>	<b>Yellow Garza Supreme.</b> Yellow.....	Short	Intermed.	Dec. 15	3.00 27.50

## WHITE

<b>XPD</b>	<b>Graceland.</b> Pure white, with yellow center.....	Med.	Intermed.	Oct. 28	3.00	27.50
<b>XSD</b>	<b>Blanche.</b> White .....	Med.	Intermed.	Nov. 1	3.00	27.50
<b>XD</b>	<b>White Anemone.</b> White.....	Tall	Intermed.	Nov. 5	3.00	27.50
<b>D</b>	<b>The Belle.</b> Pure white.....	Med.	Intermed.	Nov. 5	3.00	27.50
<b>XD</b>	<b>Smith's Innocence.</b> White.....	Tall	Large	Nov. 5	3.00	27.50
<b>X</b>	<b>Shasta.</b> White .....	Med.	Intermed.	Nov. 8	12.00	100.00
<b>XPD</b>	<b>Little America.</b> Snow white; medium size.....	Med.	Intermed.	Nov. 10	3.00	27.50
<b>D</b>	<b>Irene Hayes.</b> White.....	Med.	Large	Nov. 15	8.00	75.00
<b>XPD</b>	<b>White Norma.</b> White.....	Tall	Large	Nov. 18	3.00	27.50
<b>X</b>	<b>Early Garza Supreme.</b> Finest white.....	Short	Intermed.	Nov. 25	3.00	27.50
<b>D</b>	<b>Swan.</b> White .....	Med.	Large	Dec. 1	8.00	75.00
<b>XD</b>	<b>White Supreme.</b> White suffused with pink.....	Med.	Large	Dec. 10	3.00	27.50
<b>X</b>	<b>Garza Supreme.</b> Standard white.....	Short	Intermed.	Dec. 15	3.00	27.50

## BRONZE

<b>D</b>	<b>Mrs. Chas. Wylie.</b> Light reddish bronze.....	Med.	Large	Nov. 1	8.00	75.00
<b>XD</b>	<b>Bronze Tuxedo.</b> Bronze. Sport from Tuxedo.....	Med.	Large	Nov. 10	3.00	27.50
<b>D</b>	<b>Cora Scovil.</b> Burnt orange with low golden cushion .....	Med.	Large	Nov. 10	8.00	75.00
<b>XD</b>	<b>Bronze Norma.</b> Bronze. Sport from Norma.....	Tall	Large	Nov. 18	3.00	27.50
<b>XD</b>	<b>Estrelita.</b> Bronze thruout, with a full, regular cushion .....	Med.	Large	Nov. 20	3.00	27.50
<b>XPD</b>	<b>Rolinda.</b> Orange bronze.....	Med.	Intermed.	Nov. 23	3.00	27.50
<b>XPD</b>	<b>Red Rolinda.</b> Red. Sport from Rolinda.....	Med.	Intermed.	Nov. 23	3.00	27.50
<b>X</b>	<b>Yolanda.</b> Yellow .....	Med.	Small	Nov. 25	3.00	27.50
<b>XD</b>	<b>Coral Blaze.</b> Orange bronze.....	Short	Large	Dec. 1	3.00	27.50
<b>X</b>	<b>Chrome Emerald.</b> Golden orange with gold cushion .....	Short	Intermed.	Dec. 1	3.00	27.50
<b>XPD</b>	<b>Bronze Supreme.</b> Bronze with pink cast.....	Med.	Large	Dec. 10	3.00	27.50

## PINK

<b>XD</b>	<b>Betty Rose.</b> Pink, both petals and cushion.....	Med.	Large	Oct. 25	3.00	27.50
<b>D</b>	<b>Marietta.</b> Soft pink with very full cushion.....	Med.	Large	Oct. 30	3.00	27.50
<b>D</b>	<b>Topknot.</b> Creamy white cushion, pink petals....	Med.	Intermed.	Nov. 5	3.00	27.50

Most Gardeners Are Interested In Hardy Mums

# Anemone Flowered Varieties

## PINK (Continued)

Name and Description	Height	Size	Matures	Price per
			100	1000
Linda Lou. Lavender.....	Med.	Intermed.	Nov. 8	12.00 100.00
D Elsa Piel. Orchid pink, cushion tinged with gold	Med.	Large	Nov. 10	4.00 35.00
D China Rose. Dragon's blood red.....	Med.	Large	Nov. 10	3.00 27.50
XD Tuxedo. Pink .....	Med.	Large	Nov. 10	3.00 27.50
XP Orchid Beauty. Orchid with golden cushion.....	Med.	Intermed.	Nov. 15	3.00 27.50
XPD Freida. Pink; choice.....	Med.	Large	Nov. 15	3.00 27.50
XSD Norma. Orchid pink petals with golden pink cushion .....	Tall	Intermed.	Nov. 18	3.00 27.50
XD Dark Pink Norma. Dark pink.....	Tall	Intermed.	Nov. 18	3.00 27.50
PD Long Island. Beauty. White with large yellow cushion .....	Med.	Large	Nov. 20	3.00 27.50
XPD Beautiful Lady. Bright pink petals with creamy white cushion .....	Short	Large	Nov. 25	3.00 27.50
XD Dark Pink Supreme. Lavender. Sport from Pink Supreme .....	Med.	Large	Dec. 10	3.00 27.50

## RED

D Stoplight. Terra cotta petals with low yellow cushion .....	Med.	Intermed.	Nov. 5	3.00	27.50
XD The Titan. Scarlet crimson with bronzy red cushion .....	Med.	Large	Nov. 10	3.00	27.50
D Captivation. Mahogany red.....	Med.	Large	Nov. 10	3.00	27.50
XPD* Crimson Glow. Crimson maroon.....	Med.	Intermed.	Nov. 25	3.00	27.50

## Hardy Varieties

X—Extra good or generally accepted best varieties.  
 S—Indicates varieties we find most suitable for shading.  
 P—Indicates varieties suitable for Pot Plants.  
 \*—Indicates Korean varieties.

NOTE CAREFULLY INSTRUCTIONS FOR ORDERING ON PAGE TWO

## YELLOW

Name and Description	Height	Type	Matures	Price per
			100	1000
Carrie. Yellow .....	Med.	Decor.	Early	\$3.00 \$27.50
Yellow Cushion. Light buff yellow.....	Short	Semi-dble.	Sept.	3.00 27.50
X Barbara Cummings. (Yellow Normandie). Yel-low shading to bronze.....	Med.	Decor.	Sept.	3.00 27.50
X Wolverine. Yellow .....	Med.	Decor.	Sept.	3.00 27.50
*Pygmy Gold. Golden yellow.....	Short	Button	Sept. 5	4.00 35.00
X Lorelei. Yellow .....	Med.	Decor.	Sept. 10	3.00 27.50
P Early Yellow. Yellow. Sport from Early Bronze..	Short	Button	Sept. 15	3.00 27.50
Algonquin. Golden yellow .....	Med.	Decor.	Sept. 20	3.00 27.50
*King Midas. Yellow.....	Med.	Decor.	Sept. 30	3.00 27.50
*Acacia. Pale lemon yellow.....	Med.	Semi-dble.	Sept. 30	8.00 75.00
X R. Marion Hatton. Canary yellow.....	Med.	Decor.	Oct. 1	3.00 27.50
*Mrs. Sam P. Rotan. Deep golden yellow.....	Med.	Decor.	Oct. 1	3.00 27.50
*Gleam O'Gold. Pale lemon yellow.....	Short	Decor.	Oct. 1	8.00 75.00
Barnegat. Pale lemon yellow.....	Short	Decor.	Oct. 1	3.00 27.50
*Orion. Canary yellow.....	Med.	Single	Oct. 5	3.00 27.50
Pale Moon. Pale lemon yellow.....	Med.	Semi-dble.	Oct. 5	8.00 75.00
P Yellow Gem. Canary yellow.....	Med.	Button	Oct. 5	3.00 27.50
*Ceres. Old gold.....	Med.	Single	Oct. 10	3.00 27.50
Jack Bannister. Light yellow.....	Med.	Decor.	Oct. 10	3.00 27.50
XP Judith Anderson. Yellow.....	Short	Button	Oct. 25	3.00 27.50
Yellow Spoon. Lemon yellow.....	Med.	Spoon	Oct. 30	8.00 75.00

"Send Your Mum With Your Seed Order"

# Hardy Varieties (Continued)

## WHITE

Name and Description	Height	Type	Matures	Price per	
				100	1000
<b>White Gull.</b> White.....	Short	Button	Aug. 20	3.00	27.50
* <b>Innocence.</b> White .....	Short	Single	Sept.	3.00	27.50
X <b>Jean Cummings.</b> White.....	Med.	Decor.	Sept.	3.00	27.50
<b>White Cushion.</b> (Queen Cushion).....	Short	Semi-dble.	Sept.	3.00	27.50
X <b>Normandie.</b> White .....	Short	Decor.	Sept.	3.00	27.50
<b>September Queen.</b> White.....	Short	Decor.	Sept.	3.00	27.50
<b>Tasiva.</b> White .....	Med.	Decor.	Sept.	3.00	27.50
<b>Seminole.</b> Cream white.....	Short	Decor.	Sept. 15	3.00	27.50
<b>Winnetka.</b> White .....	Short	Decor.	Sept. 20	3.00	27.50
* <b>Niobe.</b> White with light yellow disc.....	Med.	Semi-dble.	Oct. 5	3.00	27.50
<b>Margot.</b> White .....	Short	Button	Oct. 8	3.00	27.50
<b>Ruth Hatton.</b> Ivory white.....	Short	Decor.	Oct. 10	3.00	27.50
<b>Malinta.</b> Cream white.....	Med.	Button	Oct. 10	5.00	40.00
<b>White Spoon.</b> White.....	Med.	Spoon	Oct. 30	8.00	75.00

## BRONZE

* <b>Geronimo.</b> Buff orange.....	Med.	Decor.	Aug. 25	3.00	27.50
<b>Ann Miller.</b> Orange red.....	Med.	Decor.	Aug. 25	3.00	27.50
<b>Bronze Cushion.</b> (King Cushion). Buff bronze..	Short	Semi-dble.	Sept.	3.00	27.50
X <b>Aladdin.</b> Bronze .....	Short	Decor.	Sept.	3.00	27.50
XP <b>Early Bronze.</b> Bronze.....	Short	Button	Sept.	3.00	27.50
<b>Emmet.</b> Buff bronze suffused with pink.....	Short	Single	Sept. 15	3.00	27.50
<b>Elena.</b> Reddish bronze.....	Short	Decor.	Sept. 20	3.00	27.50
* <b>Agnes S. Clark.</b> Apricot salmon.....	Med.	Single	Sept. 25	3.00	27.50
<b>Sunkist.</b> Orange bronze.....	Short	Decor.	Sept. 25	3.00	27.50
* <b>Mercury.</b> Blend of old rose and salmon.....	Med.	Single	Sept. 30	3.00	27.50
X <b>Francis Whittlesey.</b> Rich bronze and garnet.....	Short	Decor.	Sept. 30	3.00	27.50
* <b>Autumn Lights.</b> Coppery bronze.....	Short	Semi-dble.	Sept. 30	8.00	75.00
X <b>A. Barham.</b> Orange bronze.....	Short	Decor.	Oct. 1	3.00	27.50
* <b>Orange Wonder.</b> Deep coppery orange.....	Med.	Decor.	Oct. 1	3.00	27.50
<b>Amoskeag.</b> Buff bronze.....	Short	Semi-dble.	Oct. 1	3.00	27.50
<b>Sonoma.</b> Bronze with golden reverse.....	Med.	Decor.	Oct. 1	3.00	27.50
<b>Little Bob.</b> Dark reddish bronze.....	Med.	Button	Oct. 1	3.00	27.50
* <b>Louise Schling.</b> Bronze salmon.....	Med.	Single	Oct. 5	3.00	27.50
* <b>Vulcan.</b> Bronze crimson.....	Med.	Single	Oct. 5	3.00	27.50
* <b>Romany.</b> Reddish bronze.....	Med.	Decor.	Oct. 5	3.00	27.50
<b>Marisa.</b> Orange bronze.....	Short	Single	Oct. 10	3.00	27.50
* <b>Mandarin.</b> Coral salmon.....	Med.	Decor.	Oct. 10	4.00	35.00
* <b>Goblin.</b> Golden bronze.....	Med.	Decor.	Oct. 10	8.00	75.00
* <b>Apollo.</b> Bronze red.....	Med.	Single	Oct. 12	3.00	27.50
* <b>Saturn.</b> Bronze .....	Med.	Single	Oct. 12	3.00	27.50
* <b>Ember.</b> Coral and orange bronze.....	Med.	Decor.	Oct. 15	3.00	27.50
X <b>Granny Scovill.</b> Warm coral bronze.....	Short	Decor.	Oct. 15	3.00	27.50
X <b>Indian Summer.</b> Bronze.....	Med.	Decor.	Oct. 25	3.00	27.50

## PINK

<b>Clara Curtis.</b> Salmon pink.....	Short	Single	Aug. 28	8.00	75.00
XP <b>Amelia.</b> (Pink Cushion). Bright pink.....	Short	Semi-dble.	Sept.	3.00	27.50
P <b>Glada.</b> Soft pink.....	Short	Decor.	Sept.	3.00	27.50
<b>Provence.</b> Soft pink blended with yellow.....	Med.	Decor.	Sept.	3.00	27.50
<b>Roberta Copeland.</b> Rose pink.....	Short	Semi-dble.	Sept. 15	8.00	75.00
<b>Panola.</b> Deep lavender.....	Short	Decor.	Sept. 15	3.00	27.50
<b>Otsego.</b> Deep lavender.....	Short	Decor.	Sept. 15	3.00	27.50
* <b>The Moor.</b> Amaranth purple.....	Short	Decor.	Sept. 25	3.00	27.50
* <b>Pink Lustre.</b> Orchid pink.....	Med.	Single	Sept. 25	3.00	27.50
<b>Muskogee.</b> Deep lavender.....	Short	Semi-dble.	Sept. 27	3.00	27.50
<b>Manantico.</b> Light rose pink.....	Short	Single	Sept. 27	3.00	27.50
X <b>Albert Muller.</b> Apricot suffused with pink.....	Med.	Decor.	Oct. 1	3.00	27.50
XP <b>Eden.</b> Rose pink.....	Short	Decor.	Oct. 1	3.00	27.50
* <b>Psyche.</b> Pale rose pink.....	Med.	Single	Oct. 1	3.00	27.50

**"Get Your Orders In Early"**

## Hardy Varieties (Continued)

### PINK

		Height	Type	Matures	Price per
				100	1000
X	Jean Treadway. Pink with dark center.....	Med.	Decor.	Oct. 1	3.00 27.50
	Passumpsic. Deep lavender.....	Short	Decor.	Oct. 1	3.00 27.50
	Pohatcong. Pale lavender.....	Short	Decor.	Oct. 1	3.00 27.50
*	Burgundy. Amaranth .....	Med.	Decor.	Oct. 5	8.00 75.00
	Rose Glow. Raspberry changing to Opalescent rose .....	Short	Semi-dble.	Oct. 5	8.00 75.00
	Lilyan. Pale rose pink.....	Short	Decor.	Oct. 5	3.00 27.50
	Lavender Lady. Lavender.....	Med.	Decor.	Oct. 8	8.00 75.00
*	Country Girl. Pink.....	Tall	Single	Oct. 10	3.00 27.50
*	The Urchin. Crushed raspberry and gold.....	Med.	Semi-dble.	Oct. 10	3.00 27.50
*	Symphony. Mauve, coppery pink and lavender.....	Med.	Decor.	Oct. 12	3.00 27.50
X	Ganna. Bright pink.....	Med.	Decor.	Oct. 12	3.00 27.50
	Muldoon. Amaranth .....	Med.	Decor.	Oct. 12	3.00 27.50
*	Daphne. Pink .....	Med.	Single	Oct. 12	3.00 27.50
*	Venus. Pink .....	Med.	Single	Oct. 12	3.00 27.50
*	Diana. Rose pink.....	Med.	Single	Oct. 12	3.00 27.50
	Murillo. Light lavender.....	Med.	Decor.	Oct. 12	3.00 27.50
*	Hebe. Lavender pink.....	Med.	Single	Oct. 15	3.00 27.50
X	Rosy Gem. Bright pink or rose.....	Med.	Decor.	Oct. 15	3.00 27.50
*	Aphrodite. Blush pink.....	Short	Single	Oct. 15	3.00 27.50
	Kuzuka. Rose pink with quilled yellow center....	Short	Decor.	Oct. 20	3.00 27.50
*	Melody. Light rose pink.....	Med.	Single	Oct. 25	8.00 75.00
	Sonia. Deep lavender.....	Short	Decor.	Oct. 25	3.00 27.50
	Pink Spoon. Lavender.....	Med.	Spoon	Oct. 30	8.00 75.00

### RED

Red Cushion.	Red.....	Short	Semi-dble.	Sept.	3.00 27.50	
Deanna.	Bronze red.....	Short	Decor.	Sept. 10	3.00 27.50	
Flashlight.	Crimson .....	Short	Decor.	Sept. 20	3.00 27.50	
Edgar A. Guest.	Bronze red.....	Short	Decor.	Sept. 25	5.00 40.00	
*	Nancy Copeland.	Red.....	Med.	Single	Sept. 25	3.00 27.50
	Gypsy Girl.	Chestnut crimson.....	Short	Single	Early Oct.	3.00 27.50
X	Ruth Cummings.	Reddish bronze.....	Med.	Decor.	Early Oct.	3.00 27.50
*	Caliph.	Deep red.....	Med.	Decor.	Oct. 1	4.00 35.00
	Vivid.	Rosy crimson.....	Med.	Decor.	Oct. 1	3.00 27.50
	Crimson Splendor.	Light red.....	Short	Single	Oct. 1	3.00 27.50
	Brilliancy.	Crimson orange.....	Med.	Single	Oct. 1	3.00 27.50
	Crimson Glory.	Deep crimson.....	Short	Decor.	Oct. 5	3.00 27.50
	Sandra.	Deep crimson.....	Short	Decor.	Oct. 5	3.00 27.50
*	Saladin.	Oriental red.....	Med.	Single	Oct. 10	4.00 35.00
	Dazzler.	Cardinal red.....	Med.	Single	Oct. 10	3.00 27.50
XS	Cavalier.	Rich vermillion red.....	Med.	Single	Oct. 15	3.00 27.50
	Red Flare.	Bright red.....	Med.	Button	Oct. 15	3.00 27.50
*	Mars.	Wine red.....	Med.	Single	Oct. 15	3.00 27.50
	Red Hussar.	Scarlet crimson.....	Short	Single	Oct. 15	4.00 35.00
	Red Spoon.	.....	Med.	Spoon	Oct. 30	8.00 75.00

\*—Indicates Korean varieties.

## Japanese Mountain or Cascade Varieties

X—Extra good or generally accepted best varieties.

P—Indicates varieties suitable for Pot Plants.

**NOTE CAREFULLY INSTRUCTIONS FOR ORDERING ON PAGE TWO**

	Name and Description	Height	Matures	Price per
			100	1000
XP	Anna. Pure white single.....	Short	Oct. 30	\$6.00 \$50.00
XP	Jane Harte. Yellow single.....	Short	Oct. 30	6.00 50.00
	Brown Button. Bronze.....	Med.	Nov. 10	6.00 50.00
	Agappina. Mahogany with tinge of yellow on the tips of the cushion florets.....	Med.	Nov. 10	6.00 50.00

**"Check Discounts On Page 2 For Early And Quantity ORDERS"**

# Pot Plant Varieties

## PLEASE NOTE SYMBOLS USED FOR THIS CLASS

The varieties listed below include those of all types which have been found most suitable for pot culture. Types are indicated by Single, Anemone, Decorative, Pompon, and Incurred. Size of flower is indicated by S—Small; Int.—Intermediate; L—Large; and L.F.—Large Flower commercial.

X—Extra good or generally accepted best varieties.

S—Indicates varieties we find most suitable for shading.

## NOTE CAREFULLY INSTRUCTIONS FOR ORDERING ON PAGE TWO

### YELLOW

Variety	Type	Spray or Disbud	Blooming Date	Price per 100	Price per 1000
<b>Early Yellow.</b> Yellow. Sport from Early					
Bronze .....	S. Pomp.	Spray	Sept. 15	3.00	27.50
<b>Pomponette.</b> Primrose yellow.....	Int. Pomp.	Spray	Sept. 20	8.00	75.00
<b>Gold Lode.</b> Golden yellow.....	L.F. Dec.	Disbud	Oct. 1	3.00	27.50
<b>S Golden Spray.</b> Yellow.....	Int. Pomp.	Spray	Oct. 15	3.00	27.50
<b>Cincinnati.</b> Golden yellow.....	L. Pomp.	Disbud	Oct. 20	8.00	75.00
<b>XS Rodell, Imp.</b> Yellow, sport from Rodell; excellent .....	Int. Pomp.	Spray	Oct. 20	3.00	27.50
<b>S Golden Wave.</b> Yellow.....	L.F. Incurv.	Disbud	Oct. 20	3.00	27.50
<b>X Judith Anderson.</b> Yellow.....	S. Pomp.	Spray	Oct. 25	3.00	27.50
<b>Yellow Caprice.</b> Yellow.....	Int. Dec.	Dis. or Spr.	Oct. 25	3.00	27.50
<b>Smith's Superlative.</b> Golden yellow.....	L.F. Dec.	Disbud	Oct. 25	3.00	27.50
<b>XS Nuggets.</b> Best early yellow.....	S. Pomp.	Spray	Oct. 25	3.00	27.50
<b>Yellow Izola.</b> Buff yellow.....	S. Anem.	Disbud	Nov. 1	3.00	27.50
<b>X Ohio State.</b> Yellow.....	Int. Anem.	Disbud	Nov. 1	3.00	27.50
<b>XS Golden Glory.</b> Golden yellow.....	L.F. Incurv.	Disbud	Nov. 1	3.00	27.50
<b>Baby.</b> Yellow .....	S. Pomp.	Spray	Nov. 10	3.00	27.50
<b>Lila Lilly.</b> Lemon yellow.....	Int. Anem.	Disbud	Nov. 10	8.00	75.00
<b>Yellow Beauty.</b> Golden yellow.....	L. Pomp.	Disbud	Nov. 10	4.00	35.00
<b>X Lois.</b> Golden yellow.....	S. Pomp.	Spray	Nov. 15	3.00	27.50
<b>X Sunray.</b> Yellow .....	S. Anem.	Spray	Nov. 15	3.00	27.50
<b>Faith Engle.</b> Yellow with golden yellow cushion .....	S. Anem.	Spray	Nov. 15	4.00	35.00
<b>XS Yellow Fellow.</b> Yellow.....	Int. Dec.	Dis. or Spr.	Nov. 18	3.00	27.50
<b>Bonnaffon DeLuxe.</b> Golden yellow.....	L.F. Incurv.	Disbud	Nov. 20	3.00	27.50
<b>X Bright Light.</b> Bright yellow.....	L. Dec.	Disbud	Nov. 20	3.00	27.50
<b>X Yellow Rolinda.</b> Deep golden yellow, sport from Rolinda .....	Int. Anem.	Dis. or Spr.	Nov. 20	3.00	27.50
<b>X Sun Gold.</b> Yellow.....	L.F. Dec.	Disbud	Nov. 25	3.00	27.50
<b>X W. H. Lincoln.</b> Yellow.....	L. Pomp.	Disbud	Nov. 25	3.00	27.50
<b>Sunshine.</b> Yellow .....	Int. Anem.	Disbud	Nov. 25	3.00	27.50

### WHITE

<b>XS White Jewell.</b> White suffused with pink....	S. Pomp.	Spray	Oct. 10	3.00	27.50
<b>XS Irene.</b> White .....	S. Pomp.	Spray	Oct. 15	3.00	27.50
<b>Christina.</b> White, sport from Rose Chochard	L.F. Incurv.	Disbud	Oct. 20	3.00	27.50
<b>X Graceland.</b> White with yellow center.....	Int. Anem.	Disbud	Oct. 25	3.00	27.50
<b>White Caprice.</b> White.....	Int. Dec.	Dis. or Spr.	Oct. 25	3.00	27.50
<b>X Mary Pickford.</b> White.....	S. Pomp.	Spray	Nov. 1	3.00	27.50
<b>White Izola.</b> White. Sport from Izola.....	S. Anem.	Disbud	Nov. 1	3.00	27.50
<b>Richard Mandel.</b> Pure white.....	L. Pomp.	Disbud	Nov. 10	4.00	35.00

### BRONZE

<b>X Early Bronze.</b> Orange bronze.....	S. Pomp.	Spray	Sept.	3.00	27.50
<b>Bronze Lode.</b> Light bronze. Sport from					
Gold Lode .....	L.F. Dec.	Disbud	Oct. 1	3.00	27.50
<b>Tango.</b> Chinese red.....	L. Pomp.	Disbud	Oct. 15	7.00	65.00
<b>X Bonnibell.</b> Orange buff.....	S. Pomp.	Spray	Oct. 15	3.00	27.50
<b>Carlina Lee.</b> Dark rich red.....	Int. Dec.	Disbud	Oct. 20	3.00	27.50

Get Your Mum Orders In Early

# Pot Plant Varieties (Continued)

## BRONZE

	Variety	Type	Spray or Disbud	Blooming Date	Price per 100	Price per 1000
	<b>Thorina.</b> Reddish bronze.....	Int. Pomp.	Spray	Oct. 20	5.00	40.00
X	<b>Kathleen Thompson.</b> Bronze.....	Int. Dec.	Disbud	Oct. 25	3.00	27.50
	<b>Ethel.</b> Bronze .....	S. Pomp.	Spray	Oct. 25	3.00	27.50
	<b>Bronze Prince.</b> Bronze.....	L. Dec.	Disbud	Nov. 1	3.00	27.50
X	<b>Autumn Glow.</b> Bronze red.....	Int. Dec.	Dis. or Spr.	Nov. 1	3.00	27.50
X	<b>Floradora.</b> Light rose florets, orange cush.	Int. Anem.	Disbud	Nov. 1	3.00	27.50
X	<b>Glitters.</b> Bright bronze.....	L.F. Dec.	Disbud	Nov. 1	3.00	27.50
X	<b>Bronze Buckingham.</b> Bronze.....	Int. S'gle.	Dis. or Spr.	Nov. 5	3.00	27.50
X	<b>Melba.</b> Reddish bronze.....	L. S'gle.	Disbud	Nov. 5	3.00	27.50
	<b>Brutus.</b> Bronze .....	Int. Dec.	Disbud	Nov. 10	3.00	27.50
	<b>Greystone.</b> Golden orange.....	L. Pomp.	Disbud	Nov. 10	3.00	27.50
	<b>Gypsy.</b> Pale reddish bronze.....	S. Anem.	Spray	Nov. 15	4.00	35.00
X	<b>Rolinda.</b> Orange bronze.....	Int. Anem.	Dis. or Spr.	Nov. 20	3.00	27.50
X	<b>Red Rolinda.</b> Red. Sport from Rolinda.....	Int. Anem.	Dis. or Spr.	Nov. 20	3.00	27.50
	<b>Mrs. Beu.</b> Standard bronze.....	Int. Dec.	Disbud	Nov. 25	3.00	27.50
	<b>Hope Engel.</b> Rich bronze.....	S. Anem.	Spray	Nov. 25	4.00	35.00
	<b>Red Beu.</b> Reddish bronze.....	Int. Dec.	Dis. or Spr.	Nov. 25	3.00	27.50

## PINK

XS	<b>Jewell.</b> Bright rose pink.....	S. Pomp.	Spray	Oct. 10	3.00	27.50
S	<b>Justrite.</b> Pink .....	L.F. Incurv.	Disbud	Oct. 15	3.00	27.50
	<b>Rose Chochard.</b> Pink.....	L.F. Incurv.	Disbud	Oct. 20	3.00	27.50
X	<b>Benoit.</b> Deep pink.....	Int. Pomp.	Disbud	Oct. 20	3.00	27.50
	<b>Persian Rose.</b> Rose pink.....	Int. Pomp.	Spray	Oct. 20	3.00	27.50
	<b>Pink Beauty.</b> Light pink.....	L. Pomp.	Disbud	Oct. 20	3.00	27.50
X	<b>Butler's Caprice.</b> Deep pink.....	Int. Dec.	Dis. or Spr.	Oct. 25	3.00	27.50
X	<b>Lilac Caprice.</b> Deep lilac.....	Int. Dec.	Dis. or Spr.	Oct. 25	3.00	27.50
X	<b>Purple Caprice.</b> Purple.....	Int. Dec.	Dis. or Spr.	Oct. 25	3.00	27.50
X	<b>Thyra.</b> Dark pink.....	L. Pomp.	Disbud	Nov. 1	3.00	27.50
	<b>Izola.</b> Amaranth .....	S. Anem.	Disbud	Nov. 1	3.00	27.50
	<b>Laelia.</b> Rose pink.....	Int. Anem.	Dis. or Spr.	Nov. 1	3.00	27.50
X	<b>Margo.</b> Pinkish violet outer petals, with high, round yellow cushion.....	S. Anem.	Dis. or Spr.	Nov. 5	3.00	27.50
X	<b>W. H. Buckingham.</b> Pink.....	Int. S'gle.	Dis. or Spr.	Nov. 5	3.00	27.50
X	<b>Pygmy.</b> Light pink.....	Int. Pomp.	Dis. or Spr.	Nov. 10	3.00	27.50
	<b>Queen of Pinks.</b> Pink mandel.....	L. Pomp.	Disbud	Nov. 10	4.00	35.00
	<b>Ethrelda.</b> Light lavender.....	Int. Anem.	Disbud	Nov. 12	5.00	40.00
X	<b>Orchid Beauty.</b> Orchid with golden cushion	Int. Anem.	Disbud	Nov. 15	3.00	27.50
	<b>Little Amethyst.</b> Pale lavender.....	S. Anem.	Spray	Nov. 15	8.00	75.00
	<b>Masterpiece.</b> Tourmaline pink.....	Int. Pomp.	Dis. or Spr.	Nov. 15	3.00	27.50
	<b>Patty.</b> Pink .....	L. Pomp.	Disbud	Nov. 25	3.00	27.50
	<b>Amaranthea.</b> Purplish crimson.....	Int. Pomp.	Spray	Dec. 10	5.00	40.00

## RED

	<b>Red Izola.</b> Amaranth red.....	S. Anem.	Disbud	Nov. 1	3.00	27.50
X	<b>Red Melba.</b> Red.....	L. S'gle.	Disbud	Nov. 5	3.00	27.50
	<b>Harvard.</b> Crimson .....	L.F. Dec.	Disbud	Nov. 30	3.00	27.50

Enclose Your Mum With Your Seed Order

# NOTES ON MUM CULTURE

By Geo. J. Ball

Treatment of this subject might be divided into two main phases, first, producing uniformly good stock, for unless this is done Mums or any other crop will not be profitable; second, studying production costs. Chances are if this isn't done, they won't leave a margin, without which we just can't carry on. This makes the economic factor important.

Many points enter into the production of good stock, but the three fundamental ones are clean, fairly enriched soil, timely planting, and using unchecked stock. Plenty further details, of course, but in analyzing failures these fundamentals most frequently seem responsible. Proper care of stock plants is the first concern of the grower. If stock plants are plentiful and full of runners, the cleanest start is to use the runners for stock, discarding the old plant. Even if grown in Fla. or Calif., Mums insist on at least a brief rest during mid-winter. For this reason the greenhouse grower plants his young stock in a cold house; with the coming of longer days they naturally wake up. If stock is infected with midge it must be sprayed or fumigated regularly and persistently with most any of the commercial materials recommended for aphis. To do this effectively is costly work, but unless the infestation is cleaned up before cuttings are taken, chances are it will pay well to burn every stock plant, at least that is the ver-

dict of growers who keep cost records. The ideal time to take cuttings is a month to six weeks before ready to plant. For several reasons it is best to plant rooted cuttings direct. Not only is the extra labor and space required for the early propagation avoided, but unchecked rooted cuttings will start off and continue to grow freer than the more or less checked early start. The ideal start is to have all rooted cuttings on hand the day you are ready to plant.

For stock to be shaded for early flowering, we get our planting done from May 1 to 10, tho the cold house pictured on front cover was planted April 21, which is better to lengthen stems on rather short stemmed varieties like Major Bowes. For growing naturally, without shading, late May or early June is, in our latitude, early enuf for rooted cutting planting. We fail to see how it is possible to make a profit on July planting. Neither do we generally find it pays to grow planting stock in the field and plant late July-August because of the tendency of such stock to come blind, and the extra labor connected with it. Growth in the shallow soil of a raised bed is better controlled and tends to become harder than in a deep ground bed; but if such beds are well drained and if the lower soil is examined occasionally and not kept too wet, they will produce practically as good commercial Mums as

will a raised bed. While it doesn't make any material difference what type of soil is used for Mums, or most crops, a very heavy or light or sandy one should be avoided, or corrected thru the use of decayed manure or organic matter, the material that all good soils are largely composed of. But what about this fundamentally correct statement in the light of soil-less culture? While this revolutionary method quite up-



One of our cold houses showing cloth used on roof. This material is waterproofed canvas, cost around 16c per sq. yd. and is used for early flowering shade, after which it is left in position to be used for protecting the crop in flower from rain and frost. The sash bars used in this cold house are spaced 2 ft. and are only for supporting the rather heavy cloth. If we were to put up another, we would use pipe frame construction, believing it would pay because of being more rigid.

sets our idea of the value of organic matter, do not overlook its need in ordinary soil culture, for it seems necessary for the purpose of unlocking fertility in soil. Our soilless culture experience with this crop has been uniformly successful. It inclines us to believe that some of the principles of this plan, light soil to begin with, that is more freely aerated, might be used in ordinary culture: water and feed to be applied as with soil. We believe that a reason for the freer growth we get in gravel is due to the air that is drawn in and out three times daily. But getting back to what Mums are generally grown in, don't use old greenhouse soil unless it is sterilized. If not in a position to do this, it will pay to wheel in fresh. While Mums as well as most crops seem to flourish in soil with the pH at around neutral, investigators generally recommend that it be slightly on the acid side for this crop. As soon after planting as we can get to it, we apply a top dressing of Michigan Peat. This assures the soil on the acid side. Do not use lime unless too far on the acid side. Spacing is important and depends some on varieties, but largely on whether two or more small flowers or one large one is most profitable.

The wholesale market demand for standard Mums is quite generally for fairly large uniform flowers. Up to last season our standard practice was one flower to a plant, spaced generally 7x8 in. The past season we spaced part of all varieties 7x11 in., with two to a plant: with most varieties a glance at both spacings would show but little difference in flower size, but on cutting them out, we, of course, got quite a few small ones, but one of the two on nearly every plant was large. This two to a plant plan would seem ideal for a retail grower. On the other hand some such growers find they get more returns from as much as 4-5 small flowers than from 1-2 large ones. In England nearly all are grown 8-10 or more to a plant. For the Paris market the larger they are the better; so the answer to this question depends on your demand. Chances are that our average retail grower will want both large and small.



"October Pink" the new single that doesn't lose its color when shaded. Heavy producer, clear rose pink. That's John Jacobs, West Chicago, Illinois, the grower on the right.

The center bed in our front cover picture represents Apricot Queen, two to a plant, quite uniformly good market size. To the right is Betsy Ross, same spacing with a larger percentage of small ones. There is an attractive and a limited demand for the great big ones and it might be profitable to use some of the exhibition kind like the Turners or Pockets for this. A very nice market grade of most anemones are produced with about 3 flowers to a plant, spacing 8x8 in. Pompons vary in vigor. The New York type of growth is restricted and unprofitable unless spaced 6x6 for rooted cuttings, topping at 6-7 in. and carrying up but two stems. We are using this close spacing for all Pompons, especially if used for shading. When the number of growths is limited to 2-3, the stems draw out longer because of all growth being concentrated in them. In growing Pompons for cutting, it is a real mistake to top several times and carry all growths, because some will be blind and weak. This close spacing calls for more plants but more uniform results and longer stems makes it profitable.

## SUPPORTS

The most efficient way to support pompons is the wire and string method used by Carnation growers. The standards or large ones are sometimes tied to wire stakes; sometimes to three or four lines

of horizontal wires. The plan more generally used is to tie the end of a string about the base of each stem, the other end to an overhead wire. As the growth lengthens it is merely wrapped about the string. The overhead wire for this plan must be quite tight and frequently supported or the pull of the strings will sag it. The Chrysanthemum being very much a cool temperature plant, it follows that mid-summer temperatures of 90-100 degrees are not going to find them very happy. Under these conditions growth comes to more or less of a stand still: it follows that the roots feel the heat as well and that they will call for less water, or if watered freely as you can during spring and fall, weak growth or yellow leaves and decaying of roots will follow. We do not use any top dressing or feed either, during such conditions. If planted in fairly enriched soil to start with, they should stand a top dressing of some balanced fertilizer in June and again late in

August or September. Use 2-4 pounds to 100 square feet according to vigor of growth. We use a 5-15-5 mixture, varying it according to what an analysis of the soil indicates is lacking, or in over supply.

Old greenhouse soil that is so generally used for this crop, is frequently overloaded with fertility from what has been applied for previous crops. With peas this soil condition is frequently responsible for sickening of roots and we believe this sometimes accounts for weak spots in Mum beds. We know that a heavy leaching with hot water will correct this condition. Steam sterilizing will also do it especially if followed with a thoro saturating of cold or hot water. The wilt or yellowing disease known as Verticillium will carry over in soil: also in young stock propagated from affected plants. It is controlled by steam sterilizing soil and carefully avoiding affected plants in propagating. Affected plants should be burned. Also, keep this in mind: practically all forms of rot or fungus



One of our cold houses of Silver Sheen, photoed Sept. 17th; shade started July 10th. Note Aster Cloth on sides to bar insects. The variety Albatross, planted and shaded with Silver Sheen, will immediately follow it in flowering.

diseases are encouraged and spread by excessive atmospheric moisture. Overhead spraying or wetting down refreshes and promotes growth: also keeps red spider in check. This should be done once or twice daily during July and August, but, if this is done after 3 or 4 o'clock in the afternoon it will leave the plants too wet, overnight.

### TAKING BUDS

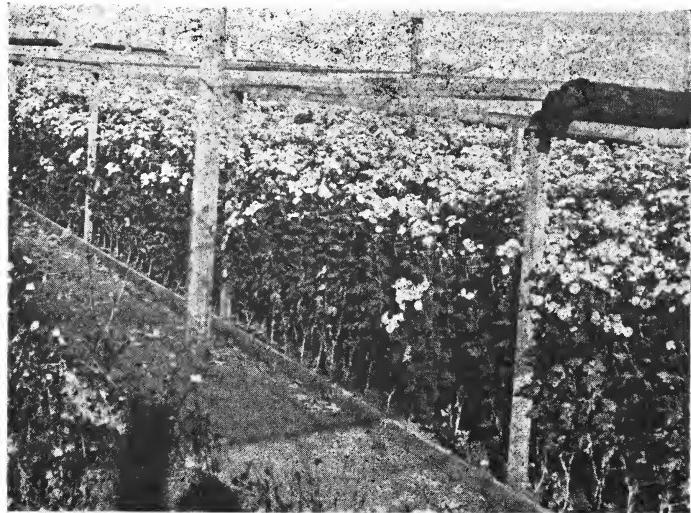
Dates for selecting them for all large or standard varieties will be found in connection with their listing in this catalog. It is difficult to be accurate with this information because of varying seasons, climates and planting dates, all of which have more or less influence on the type of buds produced, so the dates given can only be approximately right.

Large Mums produce two types of buds. Briefly stated "crown" buds appear early, are rather large and are not surrounded by a number of other buds as are the "terminals" that come later and terminate the growth. Generally speaking the early or October flowering varieties come best on crown buds; but such should not be used if they show up quite early—a week or two before the dates given in the list, that is based on experience in the northern or central states. Where the days do not shorten so early as in the south, bud selection or development will be deferred some.

### SHADING FOR EARLY FLOWERING

Lack of space will not permit much detail on this valuable subject: it will be found more fully treated in the last or 5th edition of our Ball Red Book, that will go to press soon as this catalog gets in your hands. Early flowering thru this simple process is based on the "short day" nature of Mums by which is meant setting of buds is induced by the shortening daylight hours. If daylight hours did not shorten, buds would not set at all on any class of Mums.

This is proven by using electric lights to defer bud setting and flowering of special varieties wanted later. We will touch on this subject later. All classes of Mums



Our cloth house planting figured out profitably last season, but they must be planted by Mid May and sometimes we get hard frosts after that.

respond alike to the shading treatment. For 3-4 weeks from the time shading is started, buds are set regardless of length of stem: for this reason early planting is necessarily important or short stems will of course, result. With our growing conditions planting of shading stock should be done from May 1 to 15—not later. For varieties not naturally long stemmed such as Apricot Queen pictured on front cover, center bed, later April planting is better. From 50-60 days should be figured from start of shading to cutting of crop. This varies some with varieties: the later varieties require some more time than the early or October kind. Our earliest shading of big standards begins July 10. Successive starts are made a week or 10 days apart to spread the crop. A black sateen cloth furnished by a number of firms is largely used and if cared for, will last 3-4 years, but after two years, some light will filter thru it, requiring a few days or a week longer to set buds. This cloth costs 22c per square yard. We are inclined to favor a grade of kraft paper, made by the Sisal-kraft Company, 205 W. Wacker Drive, Chicago. This costs in quantity 10c per square yard, and if not too much exposed will do for two seasons. We find this works out well for the top of beds: it is rolled up or out on a pole in 15 foot sections; but for sides, cloth attached to a wire, and that can be pushed back and forth should be used. For small houses, we cover the roof and sides with one piece. There is considerable saving in material in this over all plan for when beds are shaded individually the sides of each must be in-

cluded. Except when regularly heated greenhouses are used, any shading material used should be left in place to be unrolled as a possible protection against frost or rain. More time is required in shading pompons because of some lateral bud setting that must take place before shading stops: in fact we continue the shade until first or terminal buds show color. Shading should be continued on the large flowering kind until the most forward buds are around  $\frac{1}{2}$  inch in diameter. Intensive breeding for size is perhaps responsible for the fact that, generally speaking the larger flowers are, the softer they become. In Mums we know that exhibition kinds like the Turners would be useless to flower in September because they lack enuf hardness to prevent rotting thru the heat and wet spells of that month. In even the moderate size varieties some are too soft for September, others characteristically hard. The small pompons are the hardest of any and can be exposed to dampness without harm. We had a cloth house planting this fall in full flower when the temperature went down to  $22^{\circ}$ . Under the shading cloth pulled over them it got down to  $32^{\circ}$  and, as it usually does, this happened during a few days of rainy weather. But when flowered in the open we find them around 10 days later in flowering than when planted in an ordinarily heated greenhouse with the same shading treatment. Because of the greatly reduced overhead or investment we find this outdoor planting worth while. Next season we will locate this planting so a few 1 in. steam pipes can be run into it. This, with the shading material in place will enable us to plant it around the 20th of April and assure us greater fall protection. Early planting assures longer stems and a first class bunch of pompons must be on at least 3-4 foot stems and if you cut them down too low into the hardwood they wilt.

## VARIETIES

As far as growth and bud setting is concerned, all varieties react alike to shading. But due to the temperature of September being higher than that of their normal



This variety, Peggy Ann Hoover, might be of more value as an attraction than any on the list, something different, here it is.

flowering season, some varieties change color considerably. The October flowering rose pink kind, when flowered during warm September weather, fade considerably. October Rose is the generally preferred one. Major Edward Bowes is the deepest colored October variety but rather short stemmed or of compact habit. The bronze November 1 variety Apricot Queen is another example of how some colors change under shade. When this is shaded into flower in the warmth of late September, it is an attractive deep or dark yellow, a fine market color. While colors or shades of shaded stock depends on temperatures in which they are flowered, practically all the clear yellows and whites come true when flowered early. Even such a deep yellow as Friendly Rival loses little of its fine color when flowered early. Another important point, as already mentioned is durability or hardness of flower. In offering the following list of October varieties for early or September flowering, this point is considered. This list is as follows and includes only the most popular kind: Good News, Blazing Gold, Mrs. H. E. Kidder. In yellows we find Citronella, inclined to come weak in growth, especially in ground beds. In white Silver Sheen, Albatross, and Snow White are largely used tho the last named is not as hard as the other two. The popular Betsy Ross we have dropped for we find it weaker and clearly more susceptible to disease and red spider than the others grown along side them. Detroit News stands quite alone among bronze colors tho Hilda Bergen is sometimes used. Popular late varieties for shading are Marketeer, Chas. W. Johnson, Glitters, Apricot Queen,

Gladys Pearson, Indianapolis Pink, Thanksgiving Pink, and Mrs. David F. Roy.

In Pompons, Singles, and Anemones, most all clear colors on the list are safe for early flowering. Among the early pompons for September flowering, we depend largely on the following: Nuggets, Improved Rodell, Adelaide, Sea Gull, Pink Dot, Crystal Jewel, Jessie, and Yellow Dot. Sea Gull is an ivory white but hard. Arcadia is pure white but not hard enuf for September, but perfect to flower in October. Chicago Pearl is fine to flower in October; so is Mary Lennon Hall, that we find identical with Vera Victoria. Among the singles we especially like Absolute, California Gold, Buckingham, Gretchen Piper, Joe Beuerlein, Dark Pink Valencia, and October Pink, an especially free flowering one for shading. Among the Anemones don't miss Beautiful Lady, Blanche, Dark Pink Norma, Frieda, Garza Supreme and any of the Espy colors or varieties. Among the hardies don't fail to try the variety listed as "Early Bronze," also Early Yellow. This is a real light tan pompon, perfectly hardy with us and nice for October flowering without shading. In carrying it over winter it might be safer to cover it with some coarse material. Another variety, pictured on previous page is Peggy Ann Hoover. While this type is difficult to ship, a few of them for their very attractive form should interest any retail grower.

### POT PLANTS

The demand for well grown plants in pots is clearly increasing and can be helped along wth well grown COMPACT plants. There is an active demand for such, especially in our large centers. Tall, straggly stuff, on the other hand, is not inviting to buyers and usually a loss to growers. But unsold pot plants can, of course, be cut down. In all potting or repotting, use clean fresh soil, for some of the diseases Mums are susceptible to are carried along in old greenhouse material. Also, soil should, when final repotting is done, which is usually into 5 in., be increasingly enriched. For good 6 in. specimens, cuttings should be ready to pot in April and at this rapidly growing season, strong cuttings can go directly into 3 in. DON'T LET THEM GET HARDENED OR CHECKED BY BECOMING POT BOUND IN SMALL POTS BEFORE SHIFTING. Usually three plants are used together in this final potting and for varieties not so vigorous, four plants are frequently used together. The first topping is usually done when the plants are 4-6 in. tall and again in late

June or July. Such varieties as are inclined to draw up, some topping or trimming back should be done late in July. Cuttings potted early in April for 6 in. plants will, by May 1, provide an excellent cutting that will make fine stock for finally putting 3 or 4 in a 5 in. pot. After the plants get into vigorous growth in their flowering pots, they must occasionally be helped along with light top dressings of preferably a balanced fertilizer. We occasionally see nice plants grown in an outdoor frame all summer, but most specialists prefer to keep them in a low, well ventilated, unshaded house where they are protected from storms, hot winds, and insects. But the outdoor frame plan is a profitable one if the frame is sheltered from strong winds. It is particularly convenient if the plants are to be shaded for mid-September flowering. The effect of the full outdoors on pot plants is to harden, invigorate, and keep them compact. For this reason, greenhouse grown plants can well be exposed to the outdoors for a month or 6 weeks of mid-Summer. An important detail in the growing of pot plants is in the hands of the man with the hose. Right after potting, they can be easily turned yellow by excess water, but after they become well rooted and in full growth in a 5 in. pot, they absorb much water and quickly become dry enuf to harden and dry up lower foliage unless closely watched. We have seen an overhead sprinkling system used on outdoor grown stock to good advantage. But there is danger of overwatering with it unless closely watched. The Caprice varieties and the smaller flowered kinds, were formerly largely used for pot plant purposes. Today, while all classes are used, the large flowering ones are principally depended upon; your customers will select plants with largest flowers. The following are especially popular with one of the largest successful pot plant growers in the following order: Friendly Rival, Sun Gold, Ohio State, Glitters, Golden Herald, Hilda Bergen, Thanksgiving Pink, Apricot Queen, White Chief, and Justrite. And with this same grower, the following Pompons and Anemones are used in the order named: Nuggets, Rodell Imp., Red Rover, Beautiful Lady, Kathleen Thompson, Caprice Butler, and Little America. The cooler climate of England and Canada permits flowering an early class that naturally gets in around Sept. 1, averaging about half the size of our big Oct. kind and available in a full line of colors, we believe they should have value for us as pot plants.

## TO DELAY FLOWERING

This is done thru prolonging daylight with electric lights as already suggested. For mid-season kind, turn on lights about Aug. 20. For December varieties, start a week later. Do not start later, or finished stock will tend to have long necks and sometimes, malformed flowers. Use 40 Watt bulbs with reflectors. Space lights 5 feet and high enuf to spread the light well over the bed. Turn lights on when darkness is reached and for 3 hours daily. Continue the lighting for three-fourths as many days as it is wished to delay flowering; in other words, if you wish to defer flowering 20 days, keep the lights on them 15 days. It is not considered practical to delay flowering more than 3 or 4 weeks. Take first bud showing after light treatment stops.

## SOME ECONOMIC SUGGESTIONS

Growing a good bed or house of Mums is one thing. Making it figure out a profit is something else. As a grower I sometimes wish cost accounting was never that of, for, what it reveals sometimes takes the interest and pleasure out of growing. But we have to pay our help, coal bills, and our soaring Roosevelt made taxes; and, we must make a profit and we should try and do so without working 12-14 hours daily ourselves. Making a profit in any business calls for a certain amount of business ability that can be cultivated. You can sometimes make more profit by sitting down and carefully figuring out your business than you can by hours of digging.

Among a few points for saving costs we find the planting of rooted cuttings in place of early propagated stock a distinct saving: moreover we get better results. If cuttings are ready to take in January or early February, either top the growth or root and plant the cuttings for producing more cuttings in March-April which is the better time to take them in our latitude for rooted cuttings to plant in May.

We also figure a distinct saving thru growing our Mums in what we call "cold houses." Reason for this is that we don't have so much depreciation to figure on such houses, and this figure is a heavy one in our modern houses. We get better results too because the sides in these structures are open, making them airy and cooler than a regulation house. Also, there is a lot of work in connection with Mum growing that should be done by boys and girls or inexperienced help.

And finally, if you can buy rooted cuttings in quantity at around 2 cents does it pay to produce them?

While this might be a debatable question, the fact is that every season more large growers who keep close records, and whose order runs from 50 to 125,000, claim it does not. The grower whose planting is much more limited and who can't buy quite so close might feel different, but, usually such growers retail and are at the height of their busy and crowded season when propagating should be done. Some such growers feel that it pays them better to buy than it does the large growers. Besides, the direct cost of growing your cuttings, there are indirect advantages to consider such as, having your cuttings delivered to you the day you have figured to plant. Also, when you buy annually, the order should be made up in the fall from notes on varieties as they are seen in flower. Frequently our planting consists largely of kinds that produce cuttings most freely and frequently enuf such are inferior. And what about direct costs? Various figures are given on the cost of producing cuttings. We have noted them all the way from 1½ cents to 2½. We question whether these figures represent all the cost such as, various overhead charges and losses thru cuttings rotting in spring. To produce first class cuttings, a well exposed light bench for stock plants is necessary. If you can get the figure on what a flowering crop would be worth from such a bench, the first figure to charge against your Mum cuttings would be had. And what about the cost in time and material used in fighting midge? Very few growers are free of this costly pest. An increasing number of retail grower crops are being more profitably produced by specialists and for some substantial reasons Mum cuttings are rapidly taking their place among them. Our cuttings are produced in very large quantities and with scientific cleanliness and efficiency. It might be to your advantage to let us hear from you about your supply. In conclusion the writer well recalls a remark made just 46 years ago to the effect that Mums had about reached as high a state of perfection as it was possible to achieve. But what improvements since those days! and this betterment will continue for Mums are very much a staple crop and there is hardly a variety that we can't find some fault with. But increasing attention must be paid to the economic factors involved in their cultivation.

# CARNATIONS

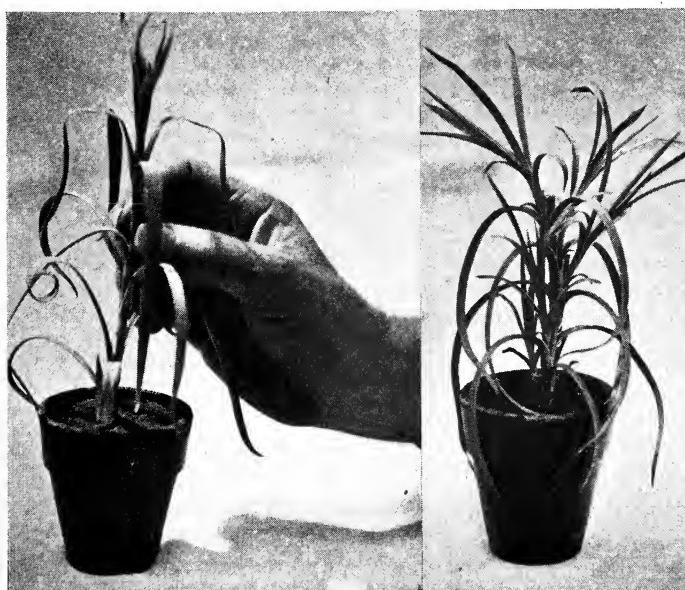
For several years our friends in various sections have entrusted us with orders for Carnation cuttings. Because of our position as growers of this crop, it gives us pleasure to extend our service to this line. We have enjoyed carnation experience in the past, are much interested in the improvements of the present, and we look forward to its prosperous future; particularly to improved methods of production.

Of first interest to every grower are the better or improved varieties, or such as respond best to his conditions or demands. Over a period of time varieties definitely do run down because of constant cutting propagation. To maintain vigor as well as to improve them it is necessary to grow new ones thru seed. And if you are going to meet today's competition or the close margins that any business faces, a close watch must be kept for the bettered varieties. Improvement is going on too fast to admit of any doubt of that. Also, if your present stock is at all run down, or substantial losses suffered thru stem rot, the chances are that an investment in fresh stock and better varieties will be a profitable one. This is especially so when it is considered that the fresh cuttings will cost little more, maybe not any more than your own.

The production of first class cuttings involves cleanliness, selection of cuttings and careful handling thruout, and this costs. But quality is always well invested in. This is especially true of what you plant in expensive greenhouse space.

We not only keep closely informed on the merits of varieties among other growers, but grow all the leaders ourselves. This experience is at your service. Should you wish information on bettering any particular variety or color you are interested in, we will be very glad to hear from you.

## CARE OF YOUNG STOCK IS OF FIRST IMPORTANCE



The young plant left is pinched off where indicated about one month after being transplanted from the sand.

About a month after the first pinching, a number of side shoots develop. As these shoots become large enough, they too are pinched until the grower believes his plant to be of the proper size. It is then allowed to flower.

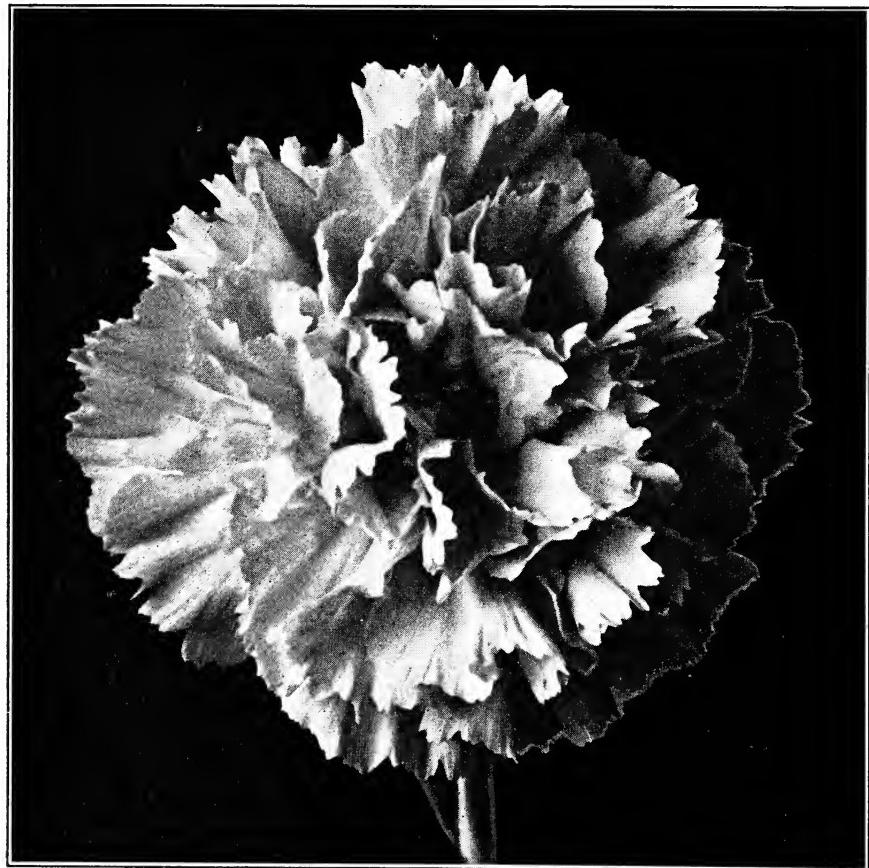
# CARNATIONS FOR 1941

## NEW AND RECENT VARIETIES DECEMBER AND LATER DELIVERIES

The descriptions of the new and recent introductions of Carnations are those of the originators. We believe they are honest in their claims and that these varieties have proved of exceptional merit in the section where they have been grown.

It is, however, a well-known fact that many new Carnations do much better in some sections of the country than they do in others. We have in mind the variety Senator. This was a New England introduction of some years back. It proved to be a wonderful white Carnation in the Mid-West, but never had the same popularity in the East.

Study the list below. We feel that any Carnations, whose descriptions appeal to you, are worthy of a trial. Some of them seem to have exceptional merit.



Pollyanna. See next page for description.

**No Orders For Less Than 25 Of A Kind Can Be Accepted**

# NEW AND RECENT VARIETIES

## POLLYANNA

For some time there has been a persistent demand for a variety in the salmon flesh color which will compare favorably in quality with the leading commercials and yield sufficiently to be profitable to grow. In our new variety "Pollyanna" we believe that we have it. Being a seedling from Light Pink Abundance crossed with a seedling variety insures its productiveness, the growth being somewhat sturdier and slightly shorter in stem. The bloom is good sized and symmetrical and keeps exceptionally well. The calyx does not split. The color is a good Laddie shade of salmon flesh which holds its freshness late into summer. We recommend Pollyanna to the discriminating grower who strives for quality along with productiveness. It makes fine plants in the field and transplants readily.

"Pollyanna" will be sold under Patent (pending) with the usual propagating privilege granted to purchasers.

\$15.00 per 100  
\$125.00 per 1000

## CHARM

Laddie Seedling (Rasmussen Patented) An outstanding carnation, slightly darker than Laddie, almost as large and produces almost twice as many blooms. Exceptionally good keeper. \$20.00 per 100  
\$150.00 per 1000

## SETH PARKER

The new crimson carnation. Looks like a winner not as dark as Woburn. (Patented)  
\$20.00 per 100  
\$150.00 per 1000

## JOYCE

A lovely new deep crimson or maroon seedling originated by Carl Engelmann of England. The variety has been grown in the country

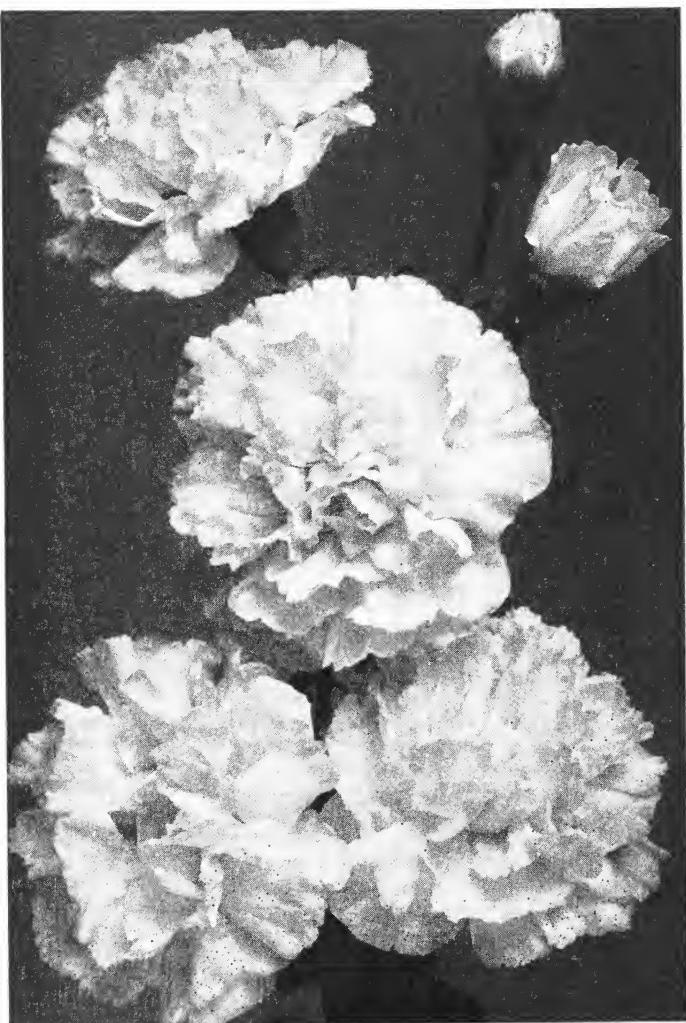
for several years, and is now ready to take its place as a leader in this color class. We believe that it will prove superior to all crimsons now available. The flowers are large and beautifully formed. They are fine keepers. The stem is long. There is very little splitting. The variety is a good producer. It is not restricted.

\$10.00 per 100                                    \$90.00 per 1000

## DIRIGO

A fine deep pink seedling of medium size introduced last year. It is the Ward or My Love shade. Plants are large and bushy, stems are excellent, production is good, and flowers keep well. There is very little splitting.

\$8.50 per 100                                    \$75.00 per 1000



Sea Shell. See next page for description.

**Write Us For Best Variety In Each Color Class**

## New and Recent Varieties (Continued)

### DARK PINK MAYTIME

This is a deep pink sport of Maytime and has the same characteristics as the parent plant. The flower has the same form and substance, but is a little larger than that of Maytime. Production is higher than is that of the average variety. Plants grow tall and erect, allowing close planting. It is a very rapid growing variety. The keeping quality of the flowers is outstanding. The first flowers are of medium pink, similar to Pink Treasure, but they darken rapidly, and within two or three weeks they are the color of Boston Ward, and they remain that color.

\$10.00 per 100

\$90.00 per 1000

### WHITE MAYTIME

This is a pure white sport of Maytime, exactly like the parent variety in every respect except color. The Maytime blossom is a beautifully formed flower, and in this rich, pure white it is especially appealing. It is a productive and profitable commercial white.

\$10.00 per 100

\$90.00 per 1000

### WHITE PETER FISHER

A pure white sport of the popular favorite, Peter Fisher. Both plants and flowers are like those of the parent plant. The bloom resembles an improved flower of the variety Ivory, but of course the stem and foliage is much heavier. It is a clean and vigorous variety, easy to grow and entirely satisfactory.

\$8.50 per 100

\$75.00 per 1000

### HERMOSA

A large and beautifully formed light pink seedling introduced last year. The color is richer and slightly deeper than that of Virginia. The plants are vigorous and free, stems are long and the calyx is firm. Production is good, and the flowers keep perfectly. This is a fine variety for those who have difficulty with Virginia.

\$8.50 per 100

\$75.00 per 1000

### SEA SHELL

A large, well-formed, full-petaled seedling having a lovely and delicate shell pink color. Plants of this variety are especially fine, being large and bushy, vigorous and absolutely clean. Stems are long and stiff, but not brittle. The calyx does not split at any time. Production is good, and the flowers keep and ship well. It is an easy variety to propagate and grow, and it is the only new variety with which we are familiar that has been introduced in this light pink color class in recent years. The color is lighter and softer than that of Virginia or Maytime. The parentage is two unnamed seedlings. The variety is not restricted.

\$15.00 per 100

\$125.00 per 1000

### PATENTED CARNATIONS

When a grower develops a new Carnation by hybridization or discovers a sport that he believes is a new and distinct type, he may apply for a patent to the U. S. Bureau of Patents. If this Patent is granted, he has the right to sell this Carnation under any restriction he cares to make.

Most introducers of Patented Carnations sell them by having the purchasers sign an agreement similar to the following:

"We agree to propagate only in such quantity as we will need for our own planting. We will neither sell, trade nor give away any plants or materials which might be used for propagating, and we will make every reasonable effort to prevent such material from leaving our premises. We further agree to destroy all plants produced in excess of our own needs for planting."

When this agreement is signed, the owner of the patent grants the purchaser the right to propagate without limit for his own use.

**Plant Clean Well-Grown Selected Cuttings. It Pays.**

# The Well Known Standard List

	Per 100	Per 1000	Johnson color, big producer. Flowers small .....	Crimson.	Good color, big producer. Flowers small .....	6.00	50.00
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## WHITE:

White Maytime. See "New and Recent" page for description .....	\$10.00	\$90.00	Wivelsfield Crimson. An English introduction. Some like it .....	10.00	90.00		
Snow White. Introduced last season, may be the large flower we want .....	9.00	80.00	Joyce. This seems to be well liked. Not as dark as Woburn .....	10.00	90.00		
Gardenia. A very large white .....	8.00	75.00					
Olivette. This seems to be the bread and butter variety for which we are looking..	8.00	75.00	King Cardinal, (Pat.). The outstanding red .....	12.00	100.00		
Joan Marie, (Pat.). Plenty of this still grown.....	7.00	60.00	Barbara Farr. Light red sport of Spectrum Supreme	7.00	60.00		
Puritan. One of the newer whites that has made good.	5.00	45.00	Spectrum Supreme. Still grown in quantity.....	6.00	50.00		
Patrician. Still popular...	5.00	45.00	Rigoletto. A Dept. of Agriculture Introduction .....	5.00	45.00		
Senator. Many Midwest growers like it.....	6.00	50.00					
White Peter Fisher. New last year, should sell well, grows the same as its parent	8.50	75.00	John Bryry. A few plants were sold last season. It looks very promising.....	20.00	150.00		

## YELLOW:

Maine Sunshine. Has been grown for years.....	7.00	60.00	Clark's Beauty. A newer variety. Does well in some localities .....	8.50	75.00		
Moonbeam. Yellow .....	12.00	100.00	Dirigo. A newer one, has shown promise .....	8.50	75.00		
Golden Wonder, good. Has faint lines of pink at times	6.00	50.00	Dark Pink Virginia. Growers seem to think it is almost like Virginia Rose.....	8.50	75.00		
Yellow Gold, (Pat.). Clear yellow .....	12.00	100.00	Virginia Rose. Rose sport of Virginia .....	8.50	75.00		

## PURPLE:

Royal Purple, (Pat.). Some grown .....	12.00	100.00	Paragon. Did not seem to do as well as it was hoped for	6.00	50.00		
Potentate. Some grown....	6.00	50.00	Peter Fisher. A fine bread and butter variety. Grown by many .....	6.00	50.00		

## CRIMSON:

Seth Parker, (Pat.). Looks like a winner. Not quite as deep as Woburn.....	20.00	150.00	Carlotta. A Dept. of Agriculture introduction .....	5.00	45.00		
Woburn. The old standby in this class .....	7.00	60.00	New Deal Ward. The best liked of the ward sports..	6.00	50.00		
			Eddie G. Did not have a large sale. It may be O. K.	8.00	75.00		

Red And Crimson Shades Are Gaining Popularity Every Season

## Standard List (Continued)

Pink Treasure, (Pat.). Large medium pink .....	20.00	150.00	Mrs. C. B. Johnson. Light salmon pink .....	6.00	50.00
Vivian. Popular in some parts .....	5.00	45.00	Berkshire Hills. Sport of Patrician .....	6.00	50.00
My Love. Still liked by many growers .....	6.00	50.00	Ruth Hengstenberg. Flesh pink .....	6.00	50.00
Del Ray. The favorite in some sections .....	6.00	50.00			
Boston Ward. Still grown.	6.00	50.00			
York Beauty, (Pat.). Big, showy flower .....	10.00	80.00			
Breiter's Pink. A producer and money-maker .....	8.50	75.00			
Rosalie. Ward color medium size flower. Good stems.					
Free grower. (Pat.).....	20.00	150.00			
Dark Pink Maytime. See "New and Recent" page... 10.00		90.00			
<b>LIGHT PINK:</b>					
Pollyanna, (Pat.). See "New and Recent" page for full description .....	15.00	125.00			
Sea Shell. See "New and Recent" page for full description .....	15.00	125.00			
Charm, (Pat.). Introduced last year. Looks very good. Color slightly darker than Laddie almost as large and produces almost twice as many blooms. Good keeper	20.00	150.00			
Hermosa. Beautiful new light pink .....	8.50	75.00			
Giant Laddie. A salmon pink sport of Laddie, larger flowers, deeper color.....	10.00	90.00			
Maytime. Lovely shell-pink with long, stiff stems. Very free grower, good keeper, with large flowers.....	7.00	60.00			
Albania. Light pink.....	12.00	100.00			
Eleanor. A fine light salmon pink .....	6.00	50.00			
Virginia. Largely grown..	6.00	50.00			
<b>VARIEGATED:</b>					
Coronet. Yellow variegated	15.00	125.00			
Lochinvar. Garnet with orchid edge. Similar to Pelargonium .....	15.00	125.00			
Pharaoh. Similar in coloring to Chief Kokomo. It is looking good .....	8.50	75.00			
Pelargonium. White overlaid with crimson maroon..	10.00	90.00			
Chief Kokomo, (Pat.). Orange yellow with red pencilings .....	12.00	100.00			
Barbara Brigham. Apricot with pink pencilings. Sport of Golden Wonder.....	6.00	50.00			
Opal, (Pat.). Purple and White variegated .....	12.00	100.00			
Delicacy Improved. White with many pink pencilings.	8.50	75.00			
Dimity. White with deep claret pencilings .....	7.00	60.00			
Suntan. Yellow with pink pencilings .....	10.00	90.00			
Dairy Maid. White with pink pencilings .....	7.00	60.00			
Lenora. Pink and white variegated .....	5.00	45.00			

**ALL ORDERS FILLED IN ROTATION. FOR EARLY JANUARY DELIVERY, SEND IN YOUR ORDERS AT ONCE.**

25 R. C. @ 100 RATE  
250 R. C. @ 1000 RATE

**The Novelty Variegated Types Are Attractive Corsage Material**

# A Word About GRAVEL CULTURE

Vic

Much talked about, much written about, gravel or soilless culture was presented to the trade by Purdue University just 4 years ago. First hailed by the rank and file as a panacea for our soil ills, experience has shown that, rather than simplifying our soil problems, it calls for mastery of a new way of growing in some respects more difficult and exacting than time honored soil culture. A few, probably not over 20 or 25 growers in all, have, thru study or schooling and experience, acquired what knowledge is available and with it an inkling of what soilless culture will have to offer once it passes its "growing pains."



Young Carnation plants just getting "under way" in gravel at West Chicago. Our plantings for this year include around 2000 of them in gravel, also Mums, Snaps, Geraniums, and Stocks in season. Glad to have you look them over.

About 12,000 sq. ft. of our range of today is devoted to soilless work. On the basis of careful records accumulated over  $3\frac{1}{2}$  years, we find the total cost of converting a house already equipped with wooden benches over to gravel to be about 12c per sq. ft.—including waterproofing, motor and pump, clock, tank, fittings, etc. This cost is spread or "depreciated" over about ten years, so will add about 5% to our annual costs. Saving in watering, cultivating, weeding, etc. will decrease costs about 15% leaving a net saving of around 10%,—quite considerable in the face of today's close margins. We should add to this saving an increase in yield and quality of perhaps 15 to 20%—and you see why gravel culture is an encouraged project wherever costs are kept.

Not too fast tho! We are free in stating that the small scale and experimental nature of our gravel crops thus far have kept most of them in the red. A recent installation of around 6,000 sq. ft. all in gravel will definitely determine the practicability of large scale operations.

These are problems we try to do our share in solving. Whatever we may learn is yours for asking. We like to call it "Ball Service."



"Vic" on left, and John Bonhard, in charge.

## CARNATIONS AT WEST CHICAGO

This is the cleanest and most successful house we have ever grown. Beautiful color, growth and stems when photoed October 5. The young stock was grown in three inch wooden plant bands. They were planted in the field with the bands. For our conditions this seems a very good compromise on out-right field culture and planting directly inside. Greenhouse benches were filled with fresh soil from the field. Tho it had grown several crops of Soy beans, it tested low in the three main elements, particularly phosphate. For this reason 5-6 lbs. of 45% acid phosphate per 100 square feet of bench space was added before planting. Nothing further was added to this rather lean soil except some quite strawy manure on bottom of the bench. Planting indoors was done July 10-15. With the wooden bands they lifted easily with the original ball of soil intact when the bands were removed in planting. After the first watering they were kept on the dry side for several weeks, after which they have been well watered about once a week; but watering will of course vary with soil and weather. Fulex has been used several times to clean up light out-breaks of spider. Nearly all varieties were topped until August 20. On September 15, a top dressing of 5-15-5 was applied at the rate of 4 lbs. per 100 feet. Nothing further will be fed them until well into January. These suggestions are made for the purpose of telling you how we did it. Conditions with you might be very different. Varieties largely used are; King Cardinal, Peter Fisher, Puritan, Patrician, Woburn, Spectrum Supreme, Virginia, Chief Kokomo, Golden Wonder, My Love, listed in order of value as we find them.

We invite you to come out and look them over.

Better Mums  
for 1941

*Geo. J. Ball*  
INC.  
WEST CHICAGO  
ILLINOIS

Better Carnations  
for 1941